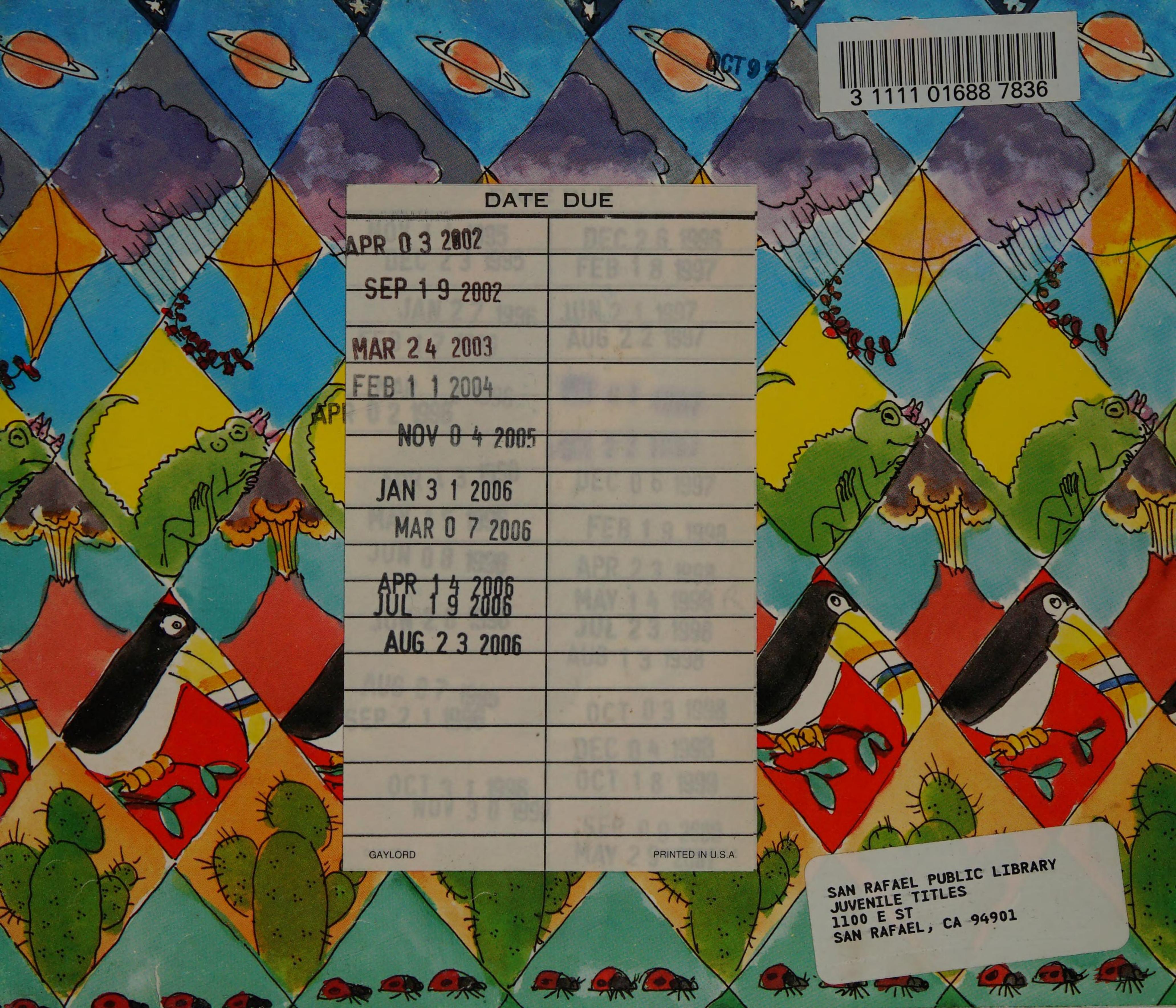


A storm system is brewing over a tropical ocean . . . and a strange yellow object is caught in the whirlwind. It's a balloon. It's a plane. It's the Magic School Bus! And so instead of visiting the weather station, Ms. Frizzle's class experiences a hurricane firsthand, from air, sea, and land.

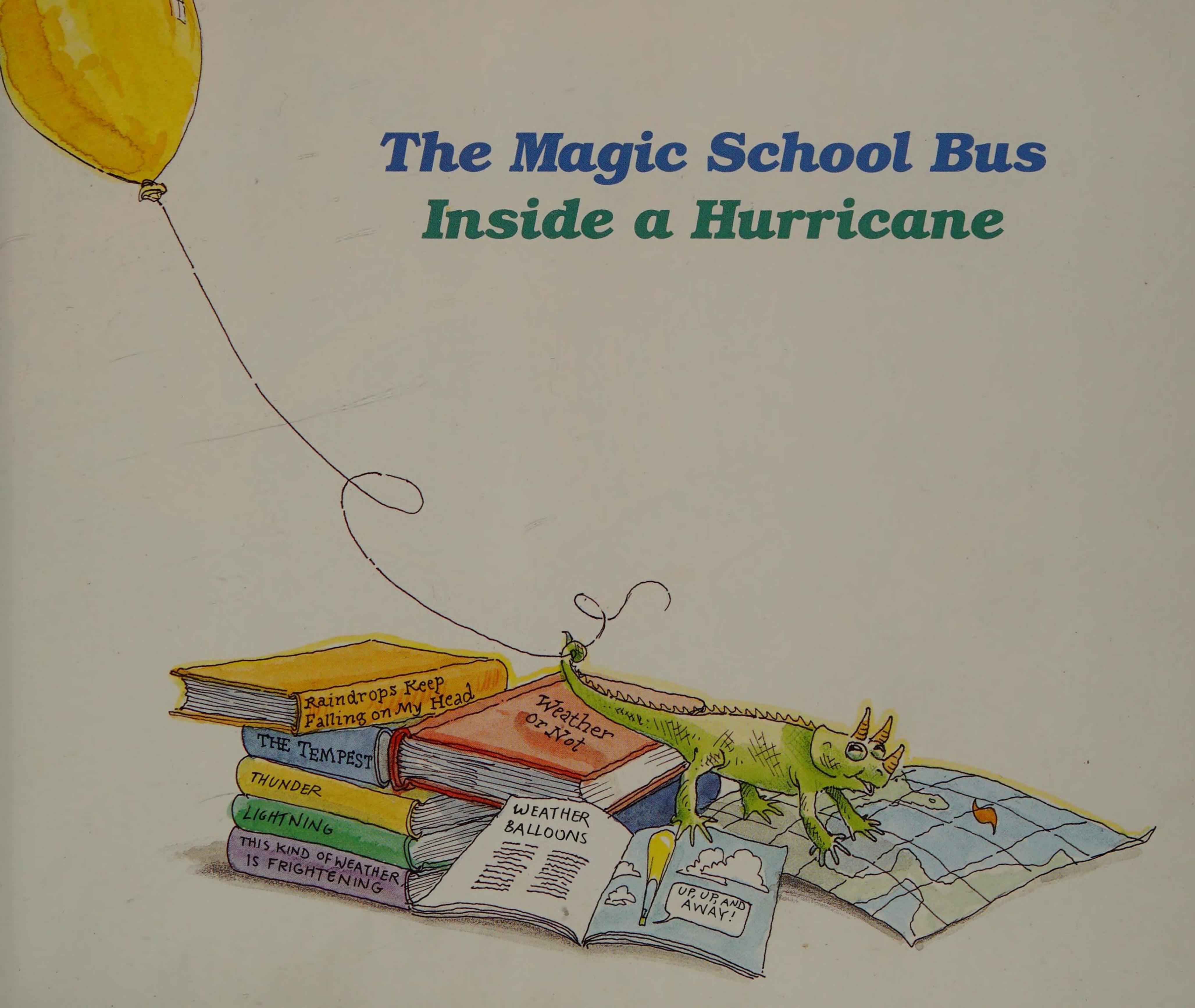
In the latest addition to this bestselling science series, readers learn how changes in the air make different kinds of weather. Wind, rain, thunder, and lightning will take on new meaning when you're inside a hurricane!

> Reinforced binding Jacket art © 1995 by Bruce Degen

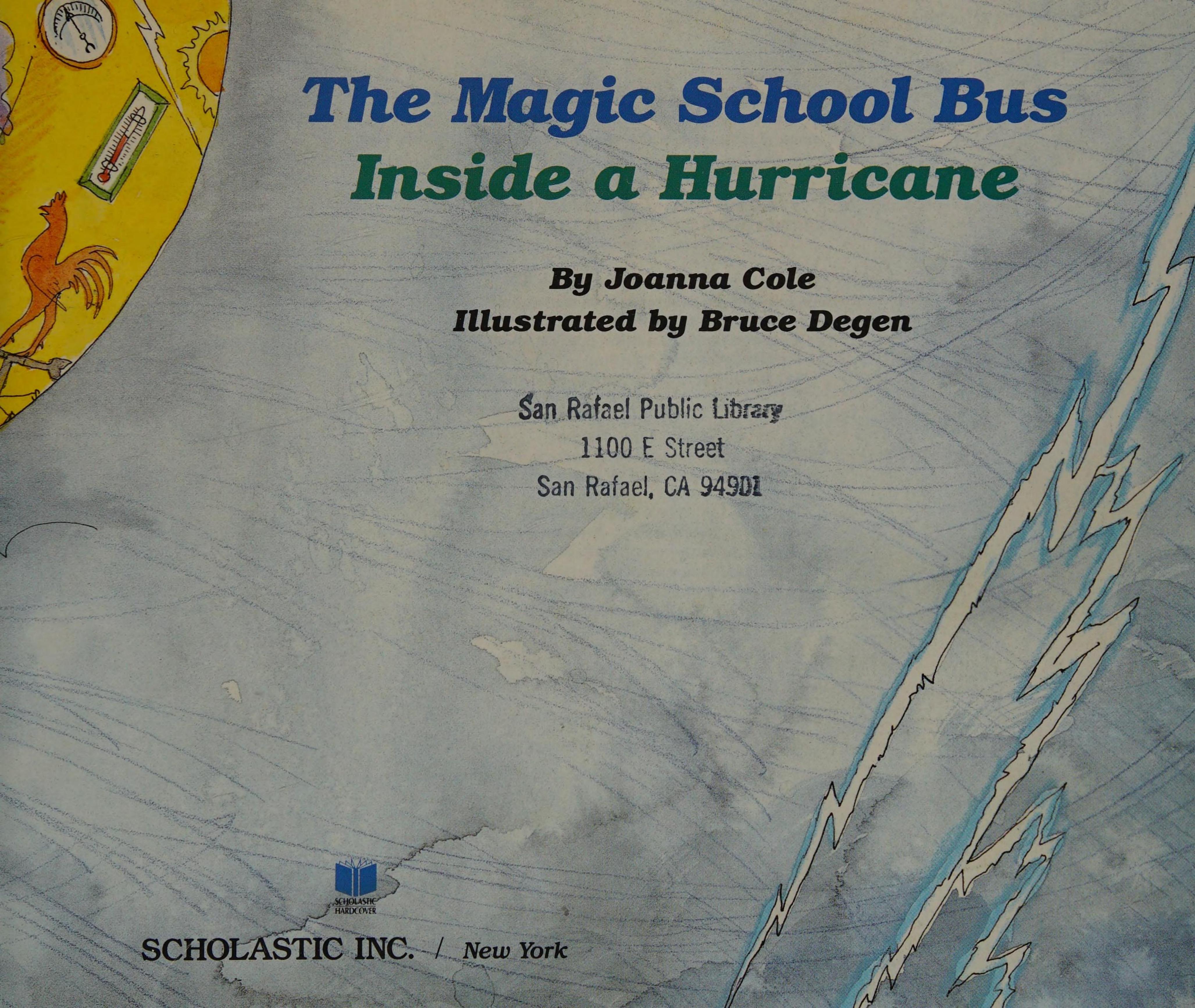












The author and illustrator wish to thank Dr. Robert C. Sheets,
Director of the National Hurricane Center; and Dr. Daniel Leathers, Delaware State Climatologist,
University of Delaware for their assistance in preparing this book.

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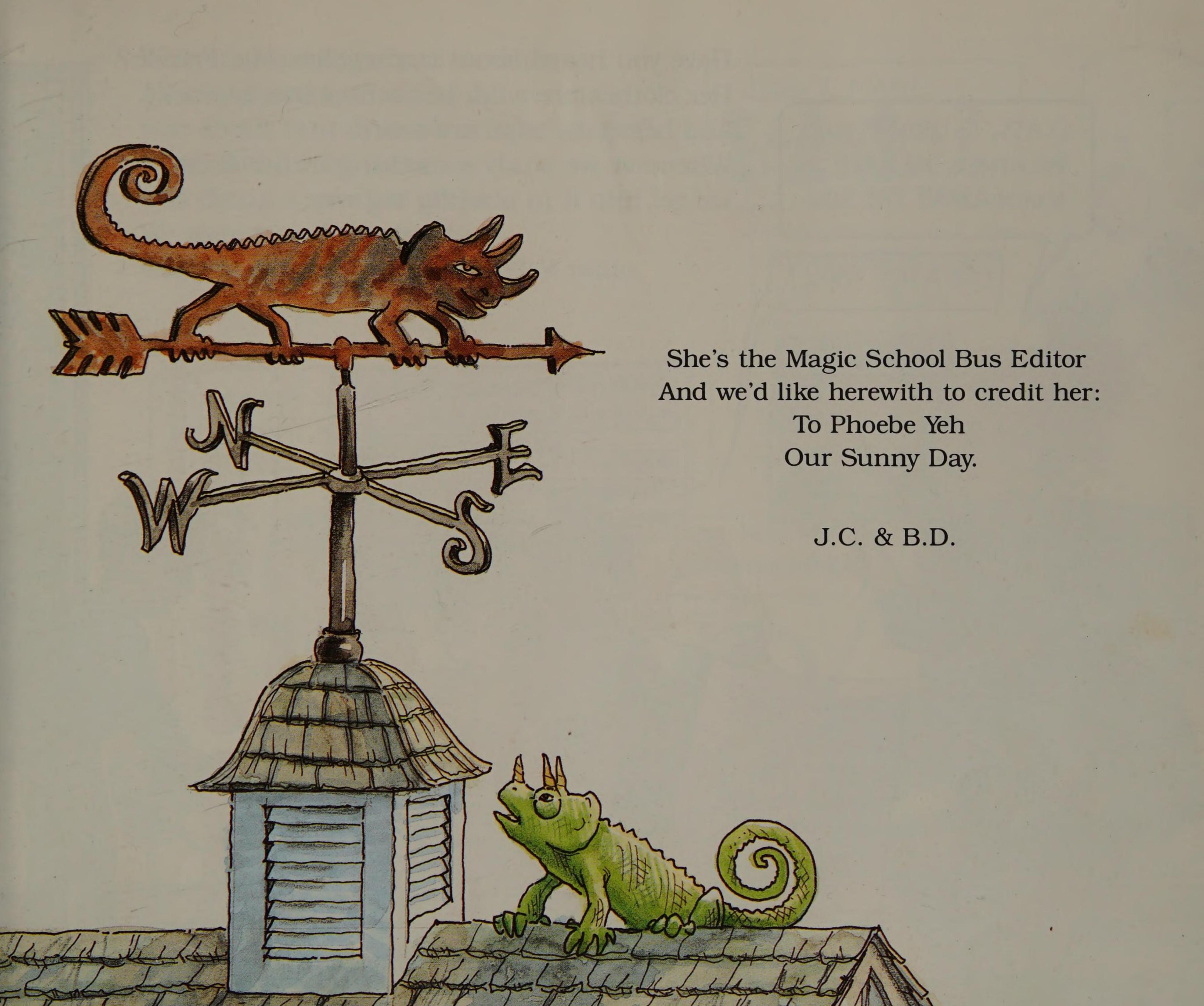
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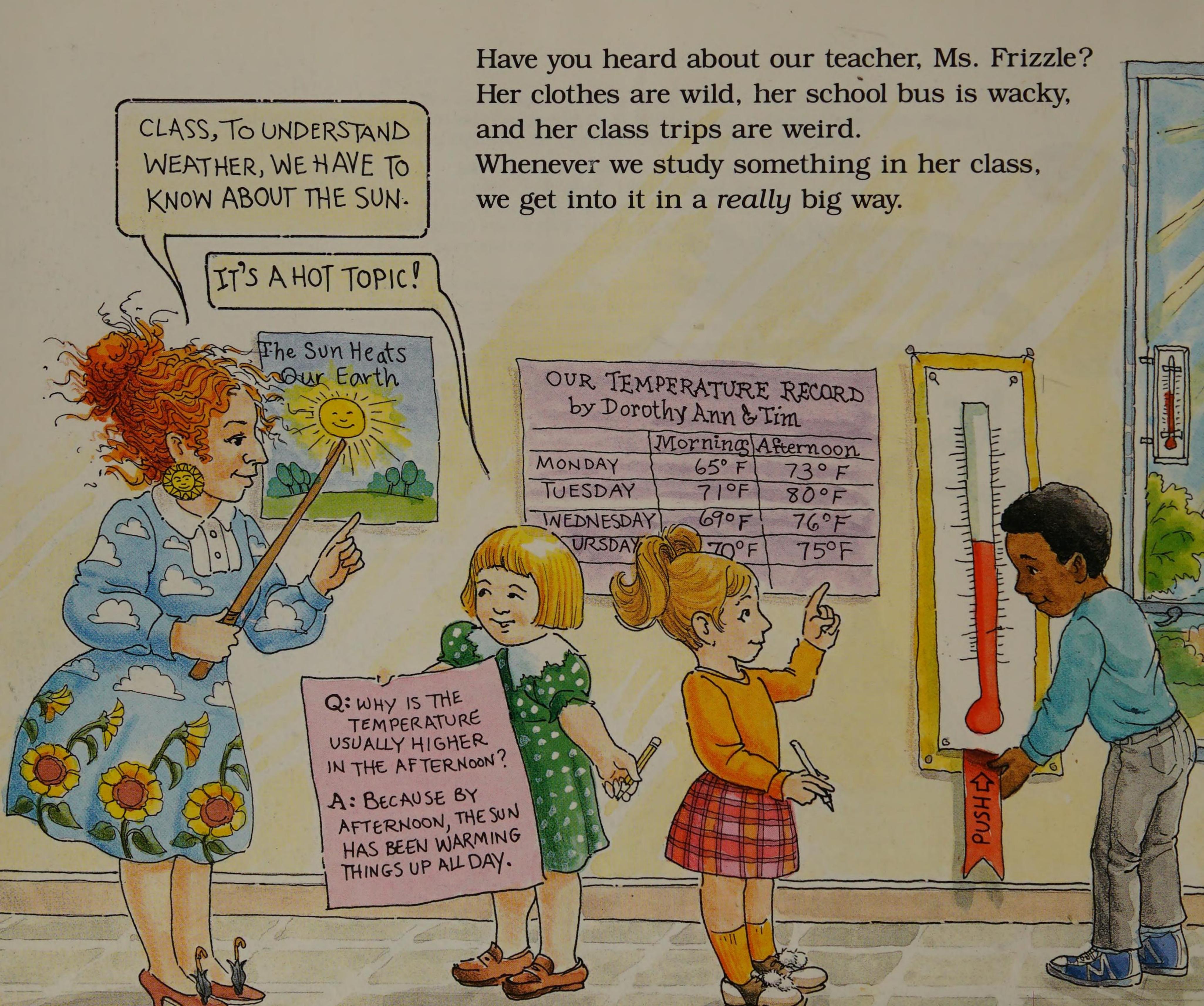
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The illustrator used pen and ink, watercolor, color pencil, and gouache for the paintings in this book.

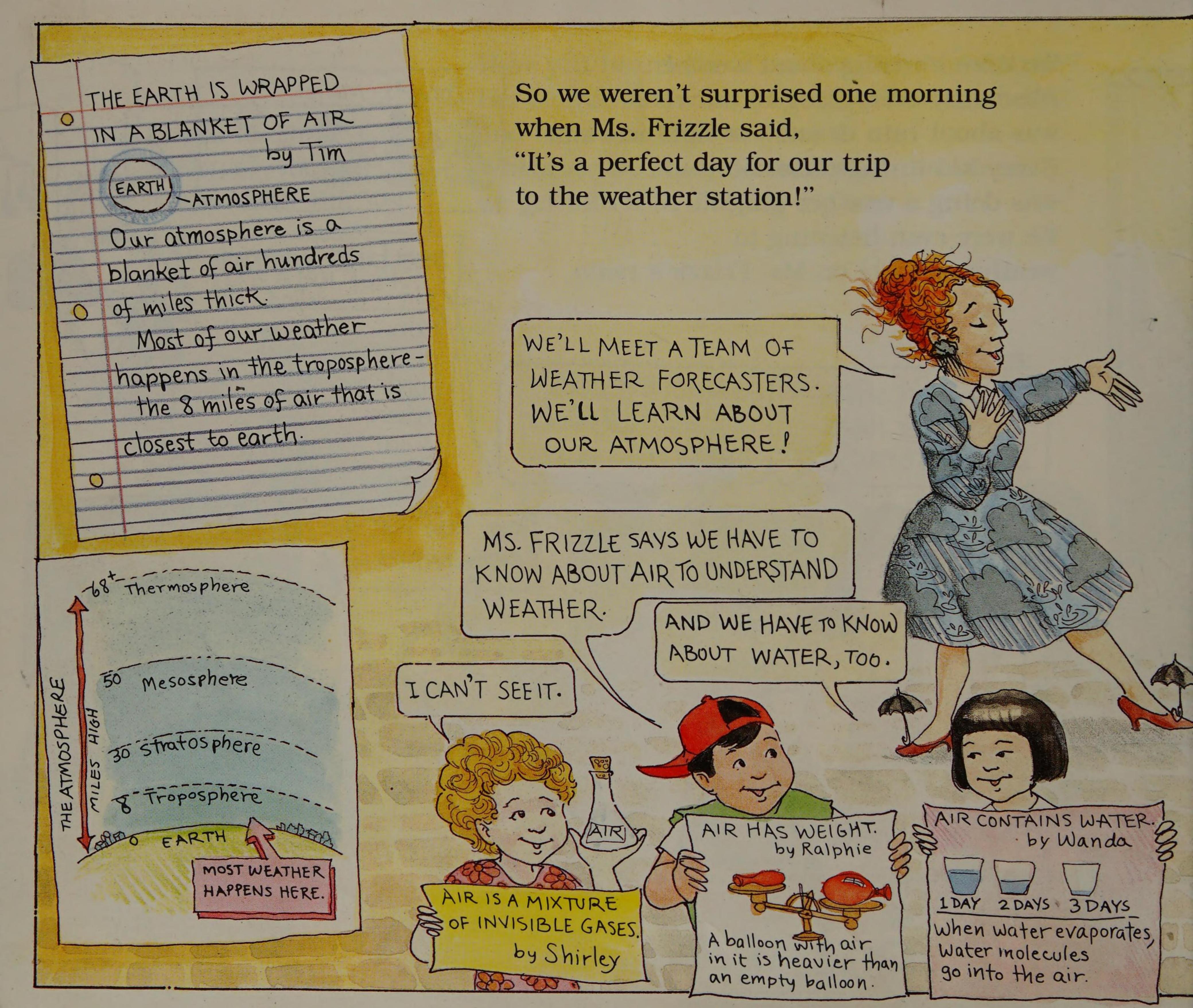
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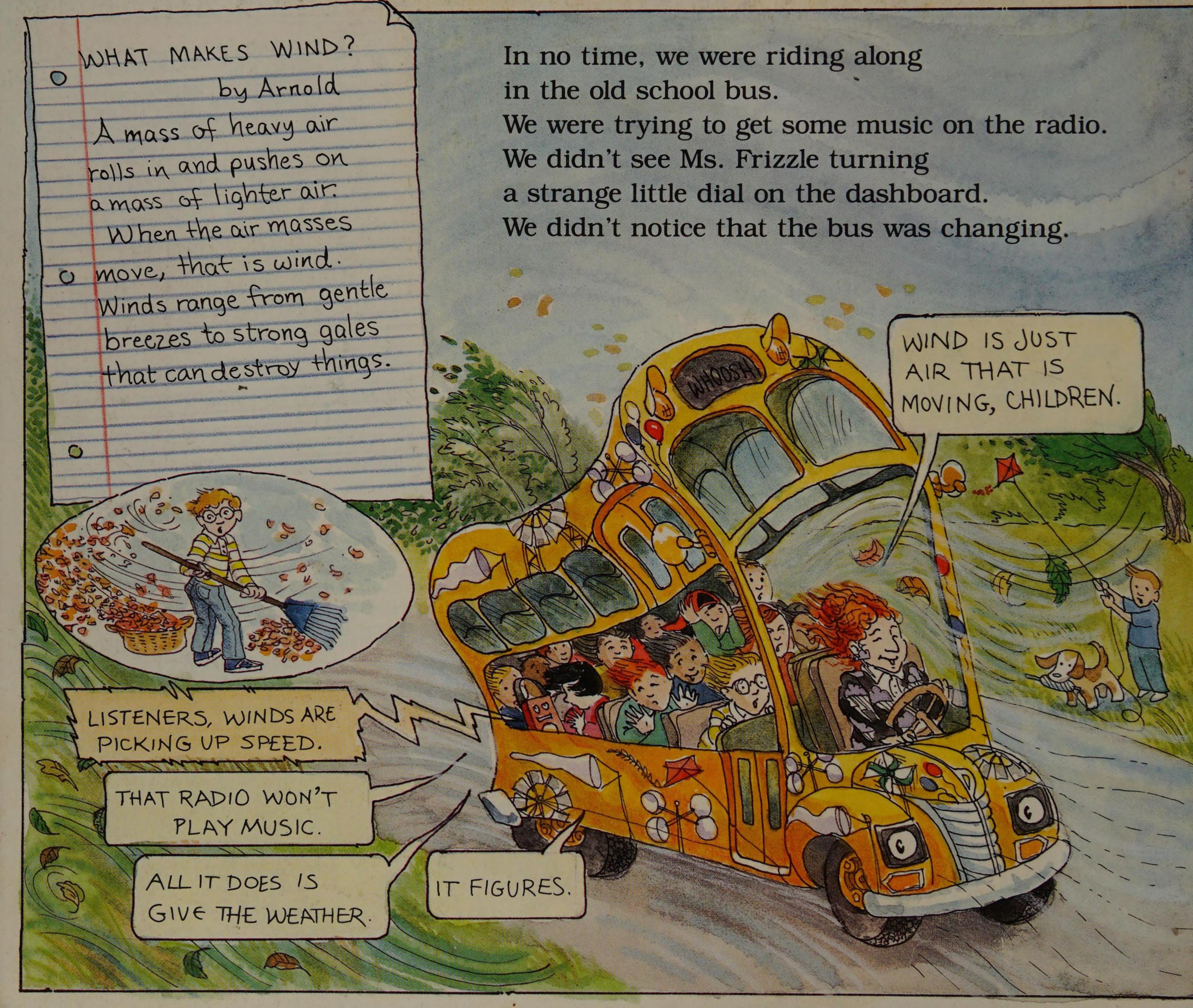


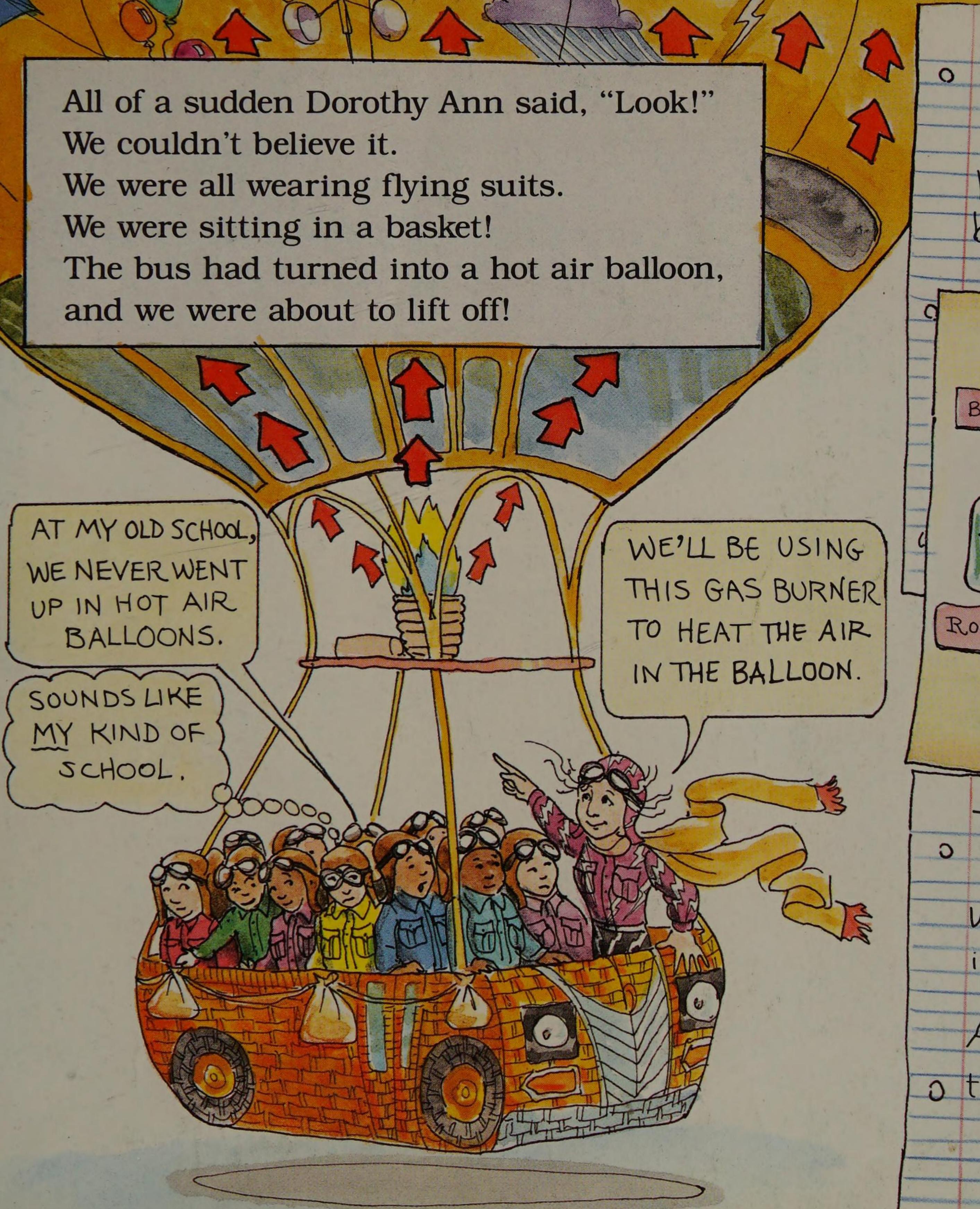




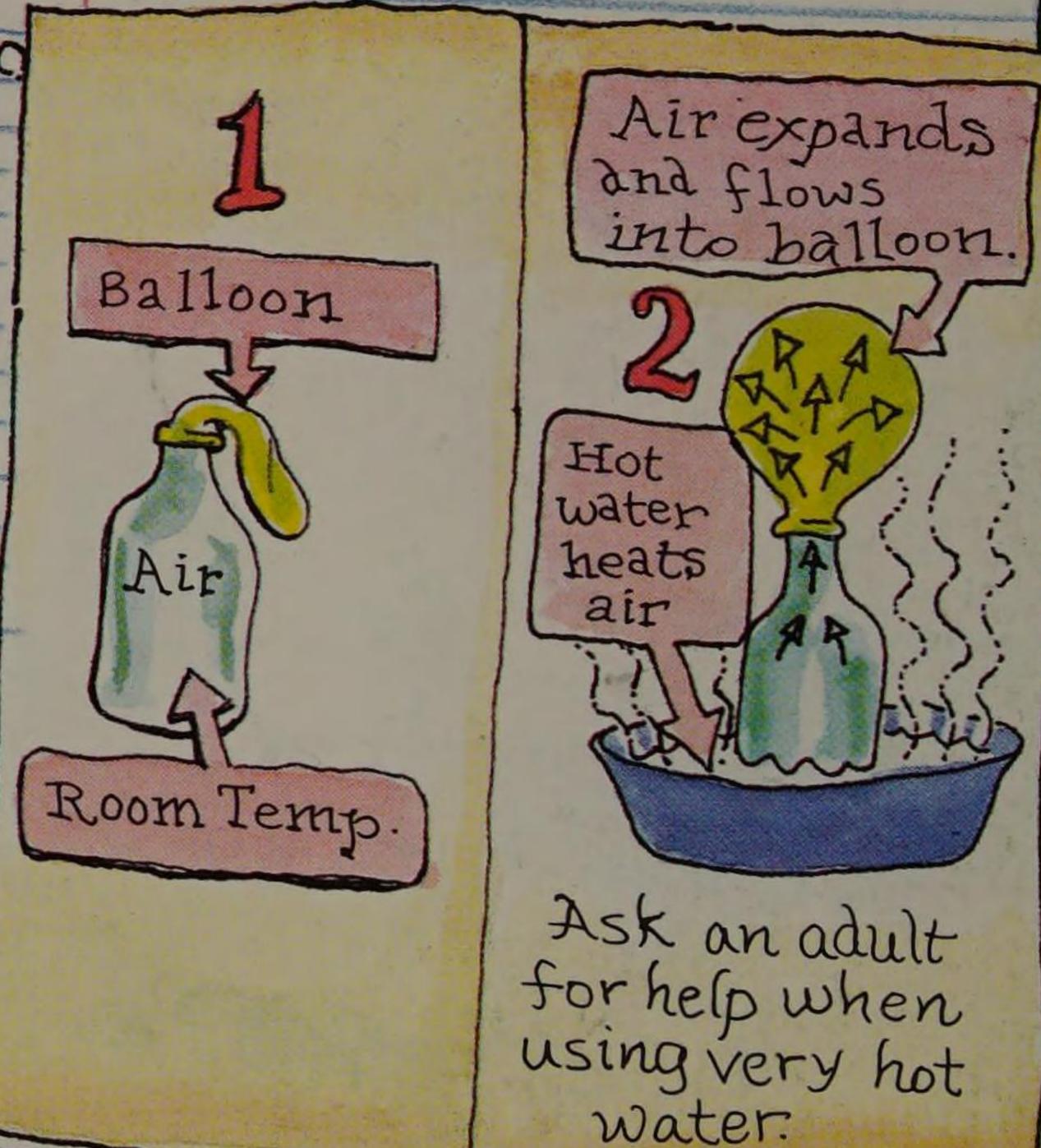








HEAT MAKES AIR EXPAND
by Molly
Hot air expands because
heat makes air molecules
bounce far apart.

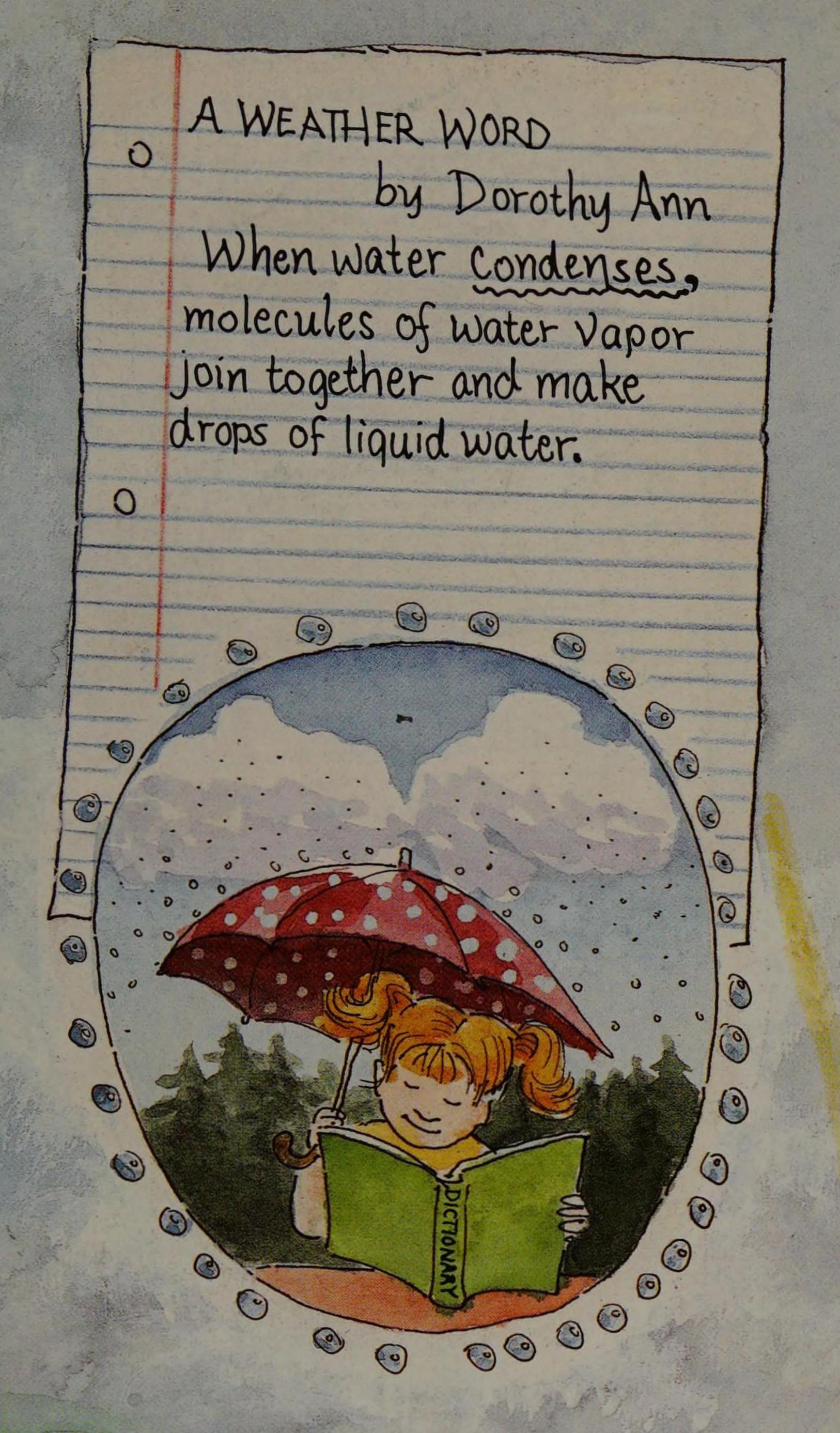


TWO WORDS FROM
DOROTHY ANN
When something expands,
it spreads out.

Air molecules are the tiniest bits of air.





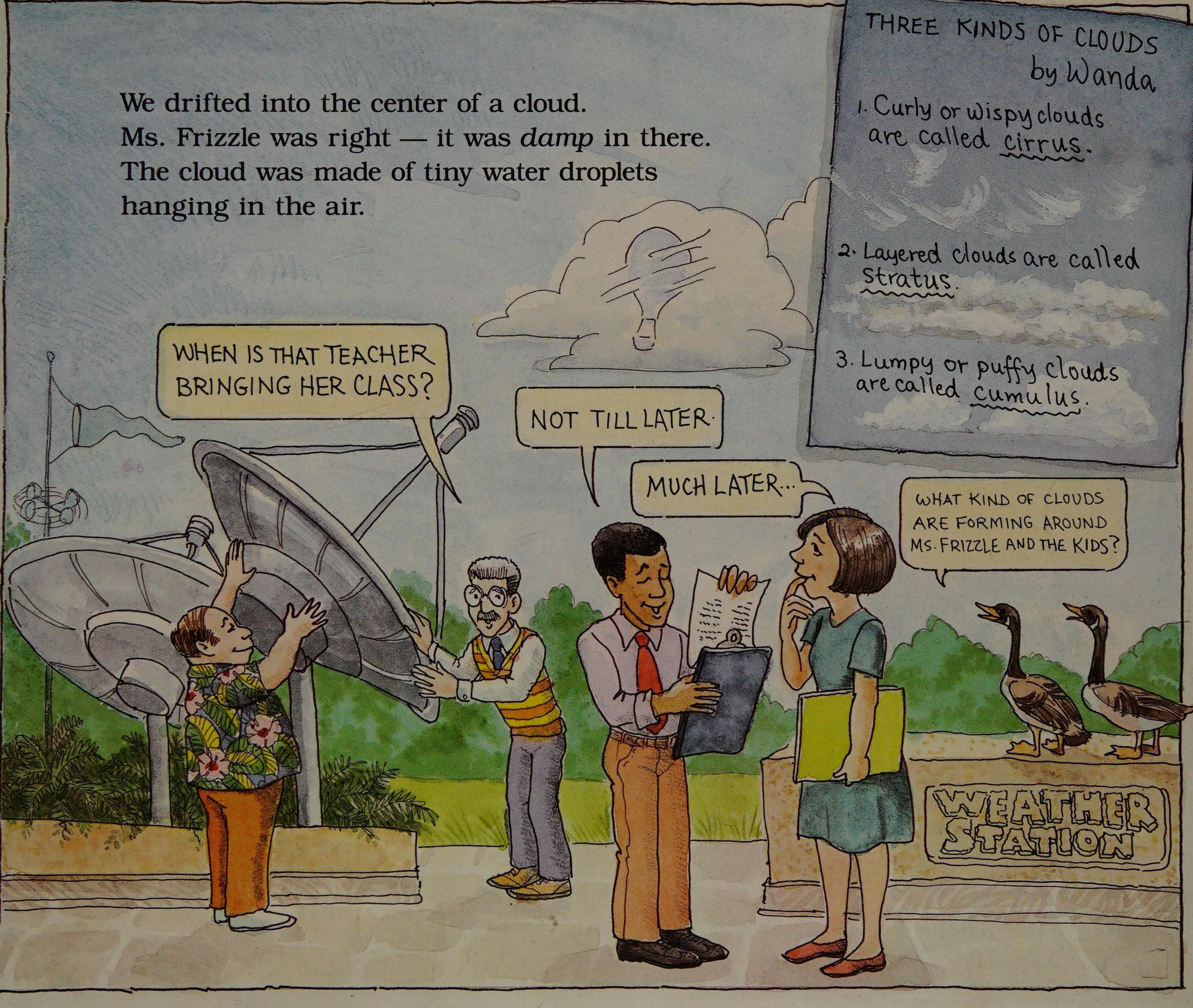


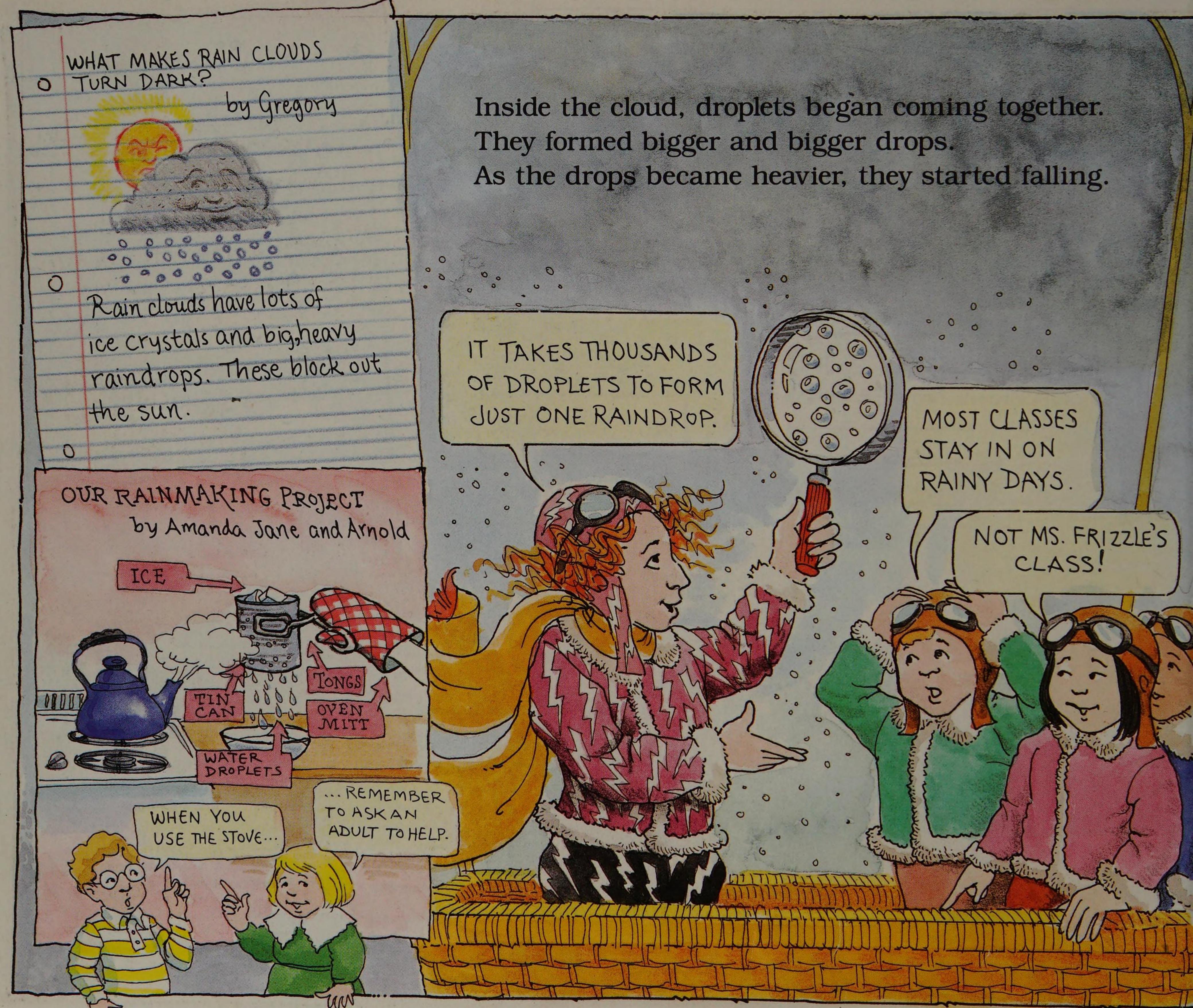
"Warm air rising from earth carries lots of water vapor molecules,"
Ms. Frizzle continued.

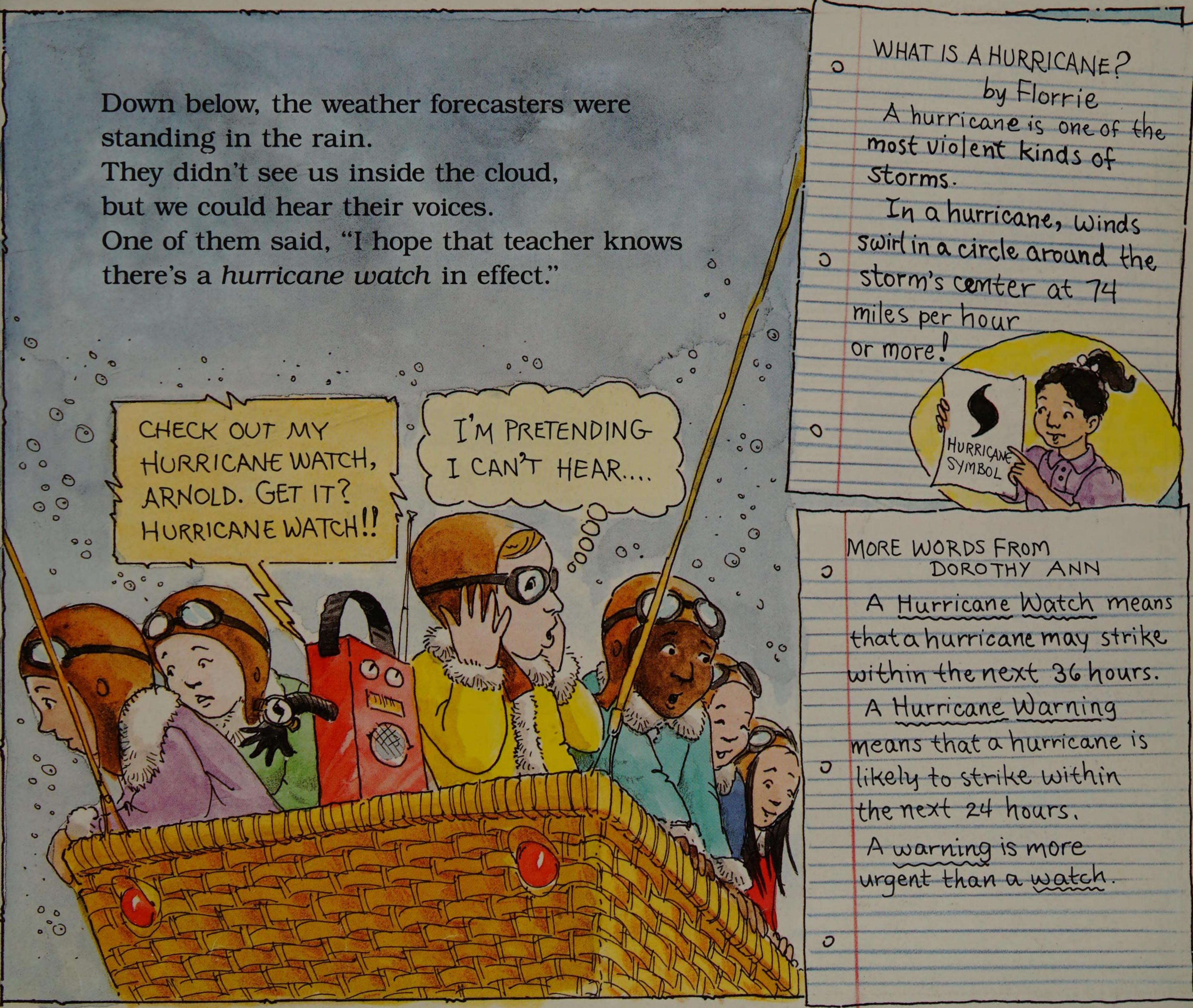
"As the air rises, it cools down.

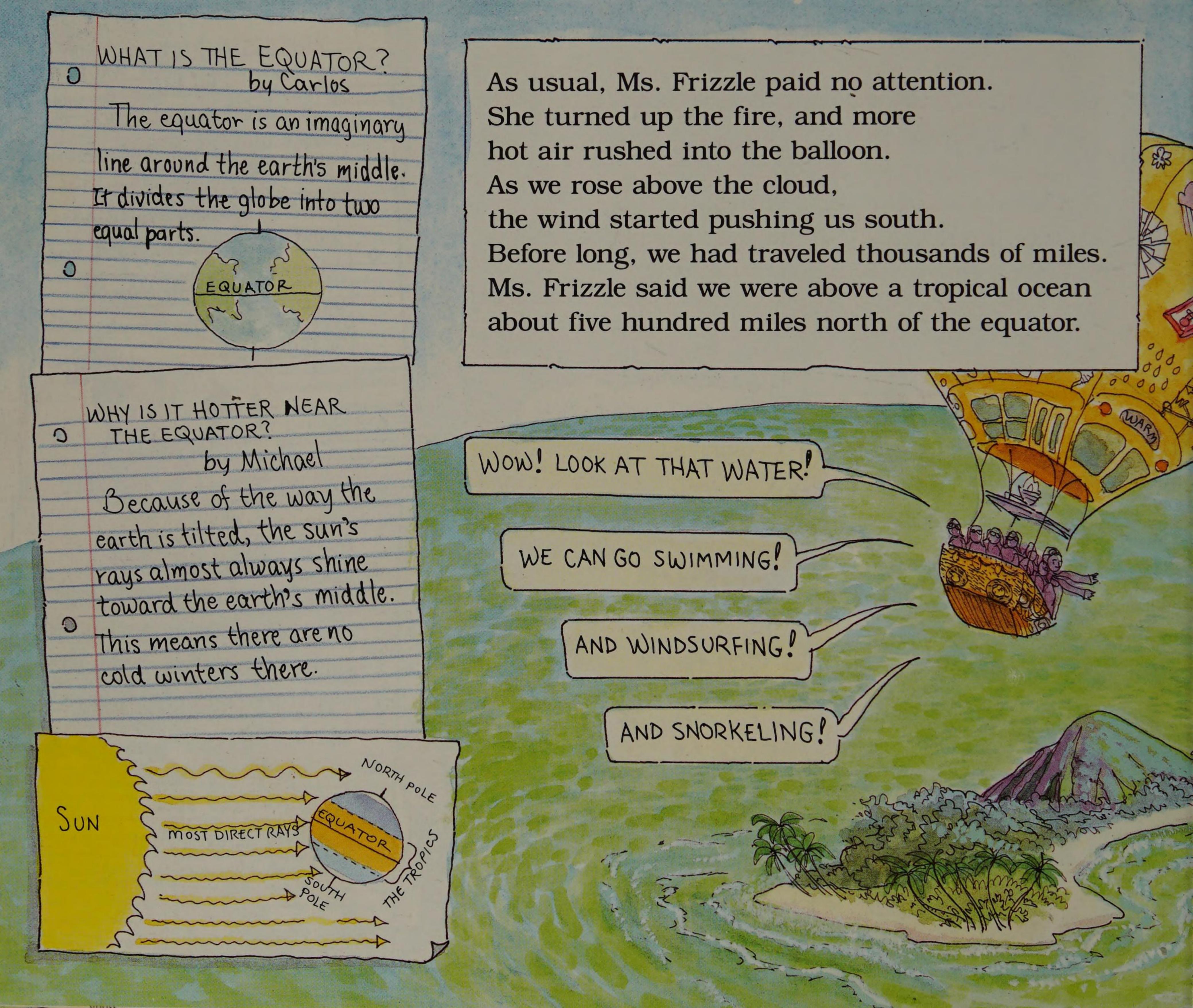
The water condenses in the air and forms clouds."

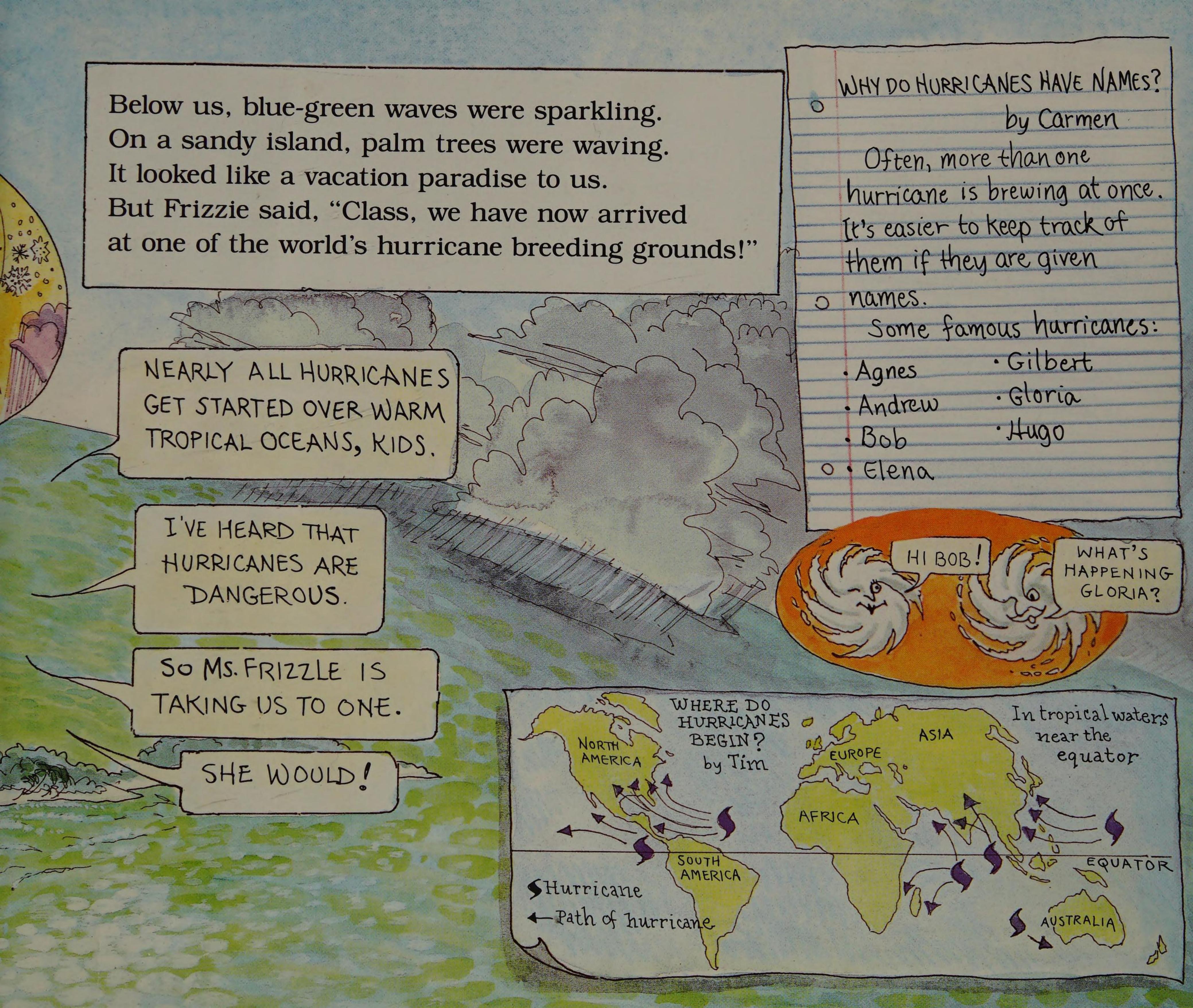


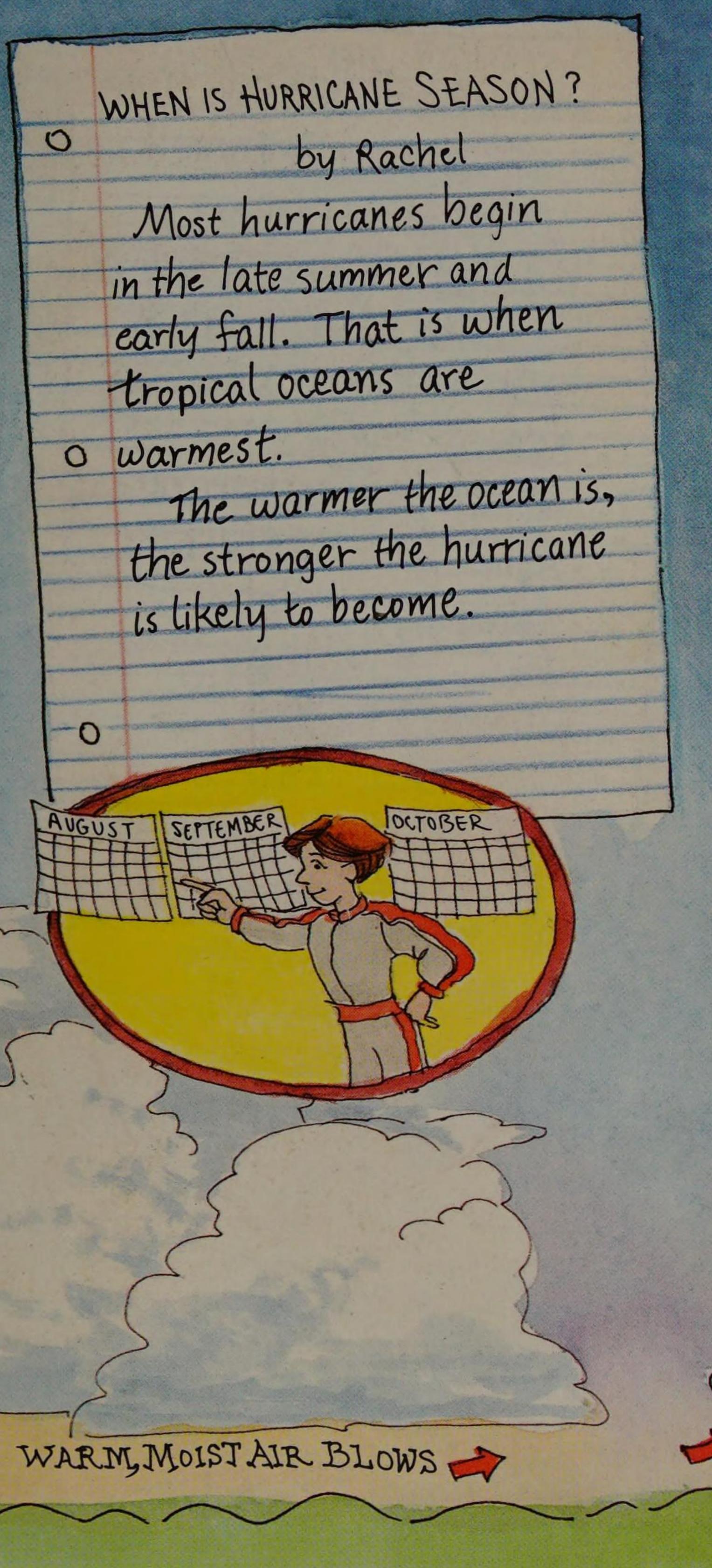










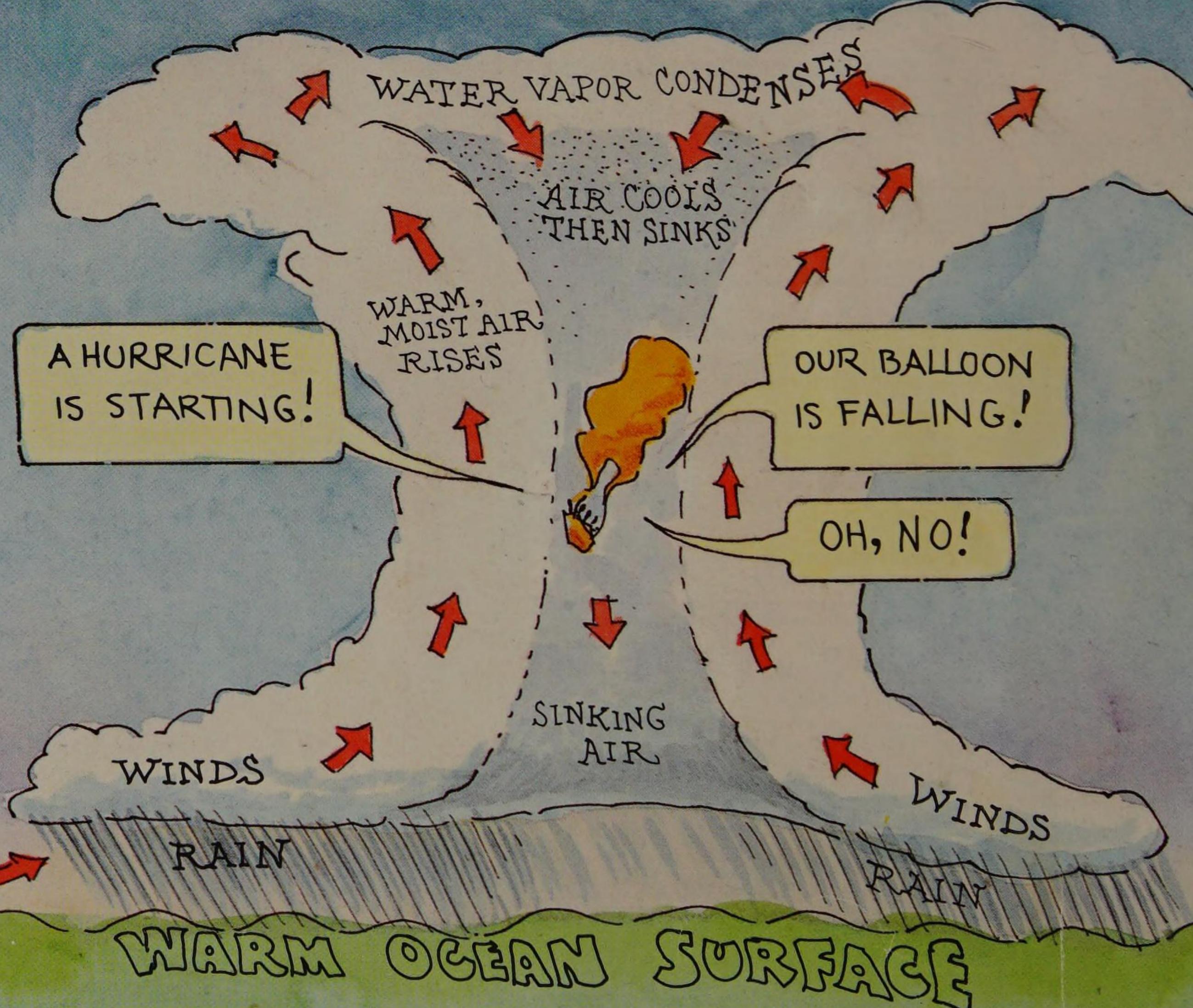


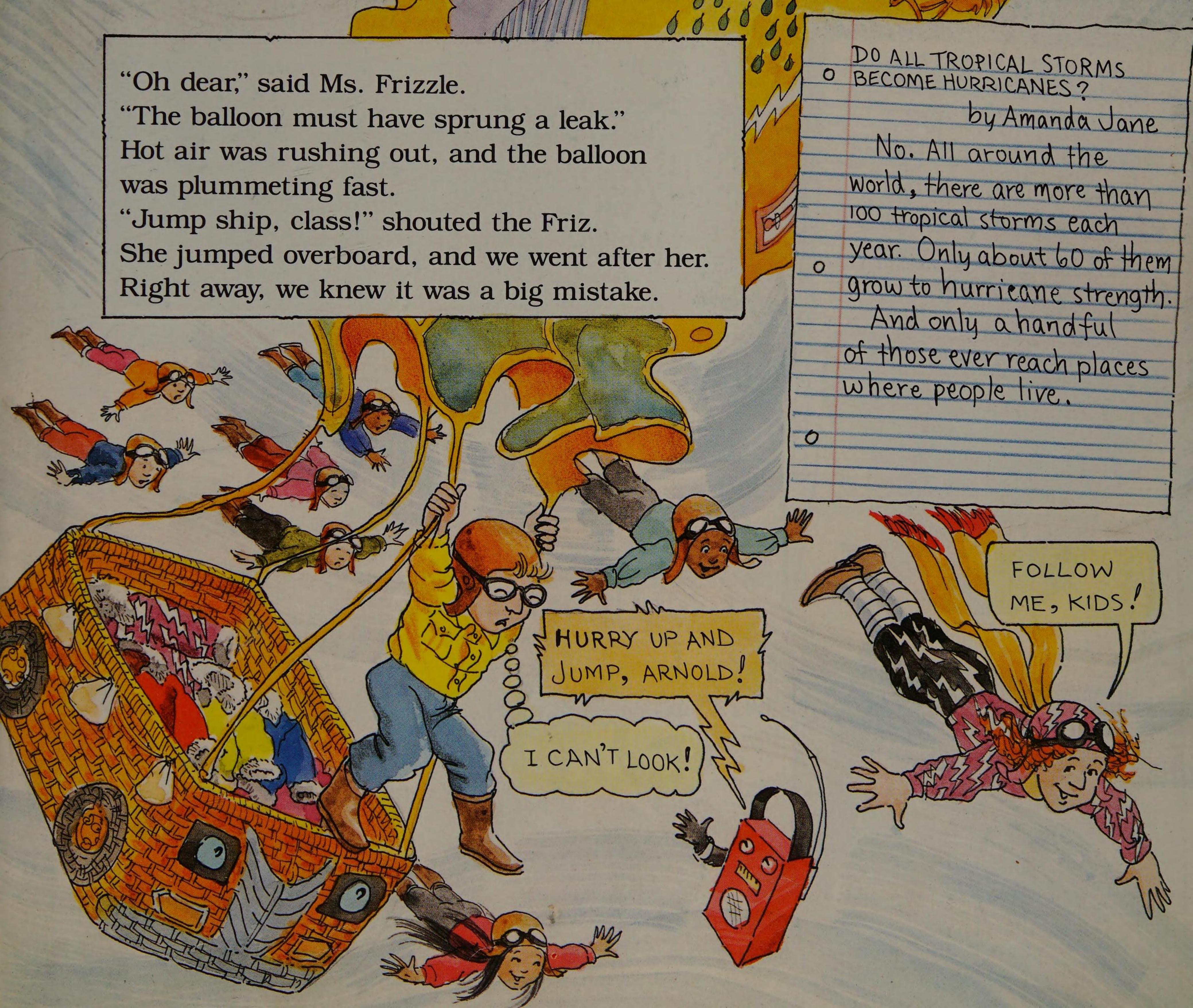
"Class, remember that as hot air rises from the ocean surface, the water vapor in the air condenses and forms clouds," said the Friz.

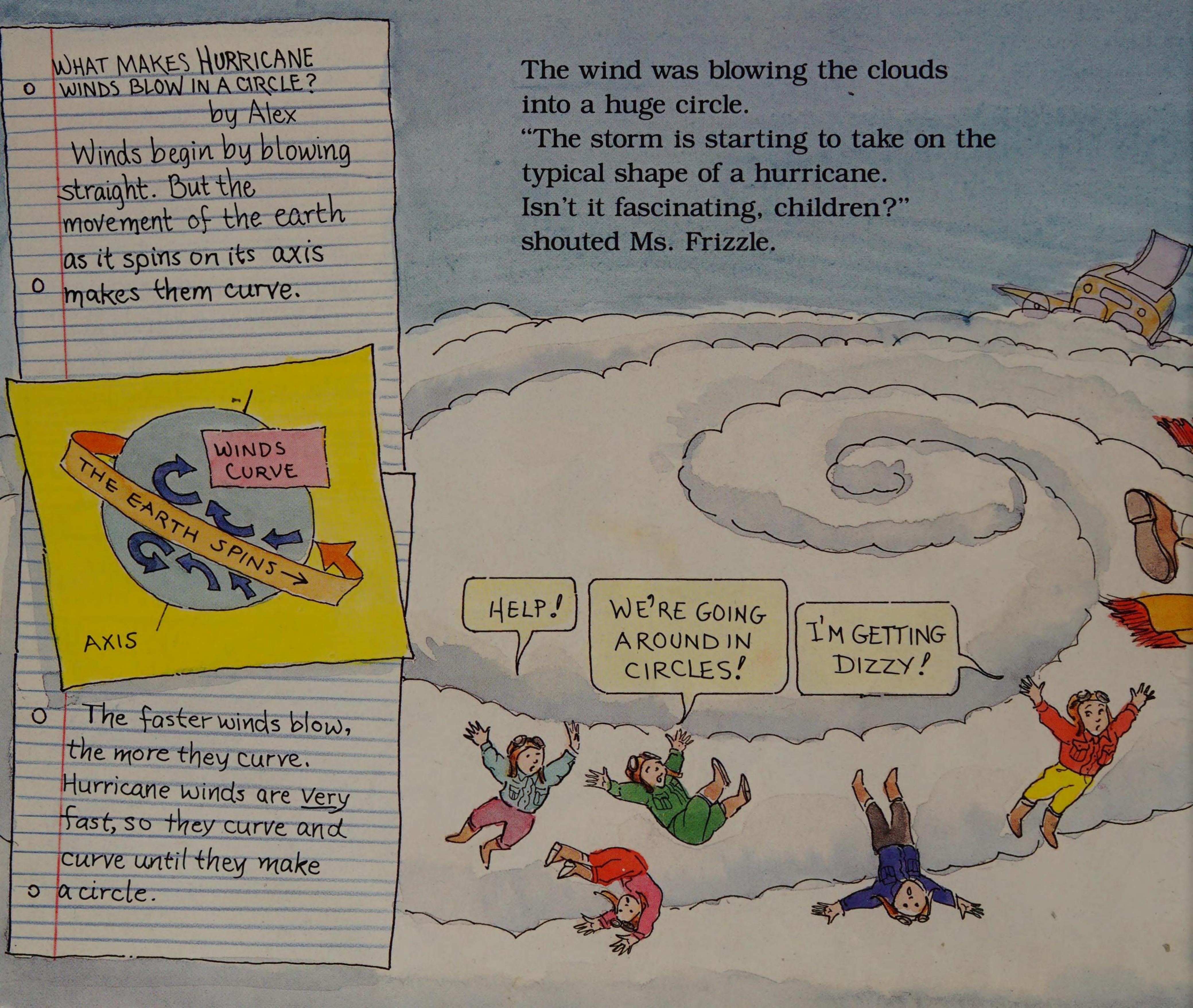
Down below, more hot air rushed in from all sides to take the place of the rising air.

In the middle of the rising air, a column of sinking air formed.

We started sinking with it.

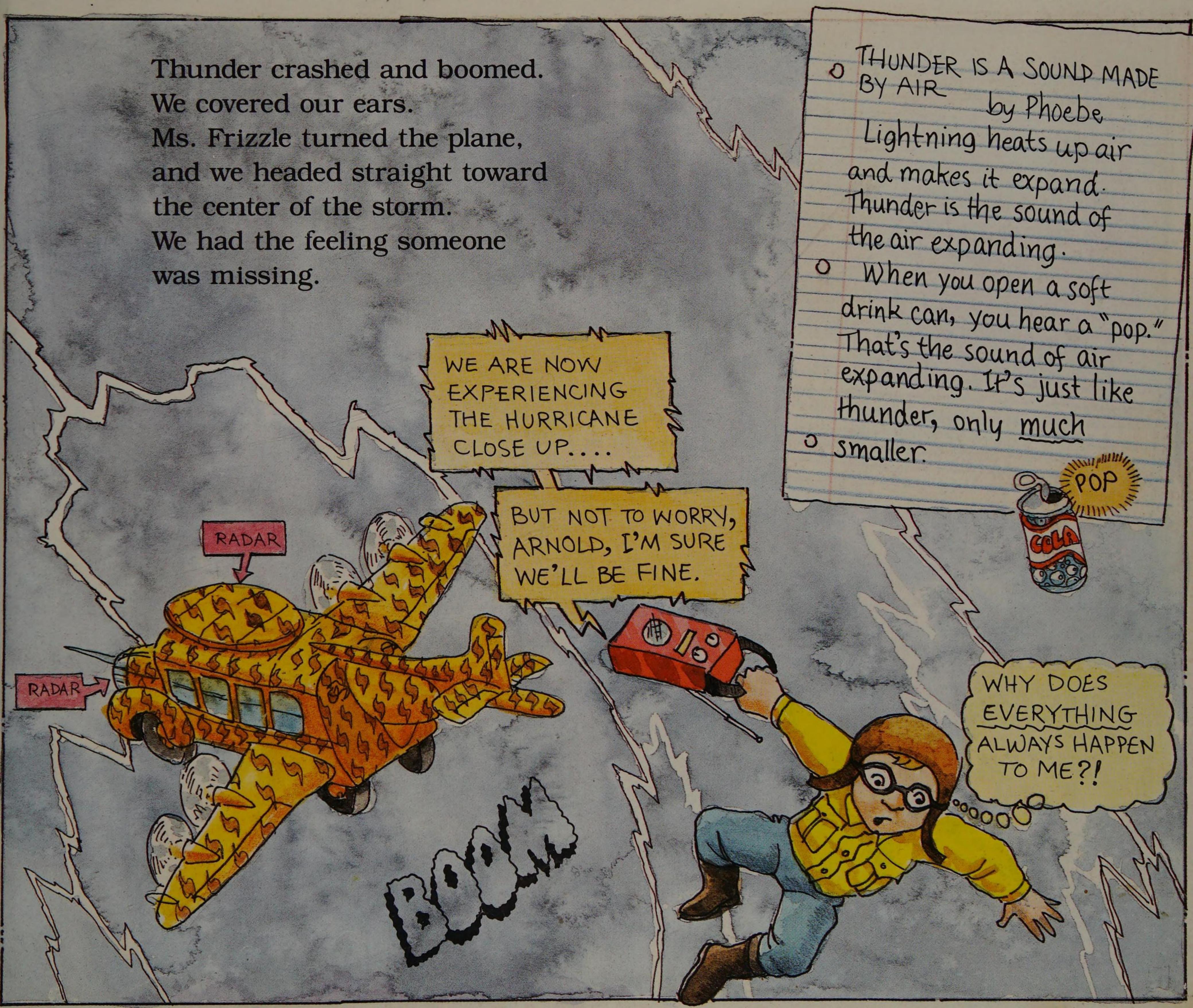


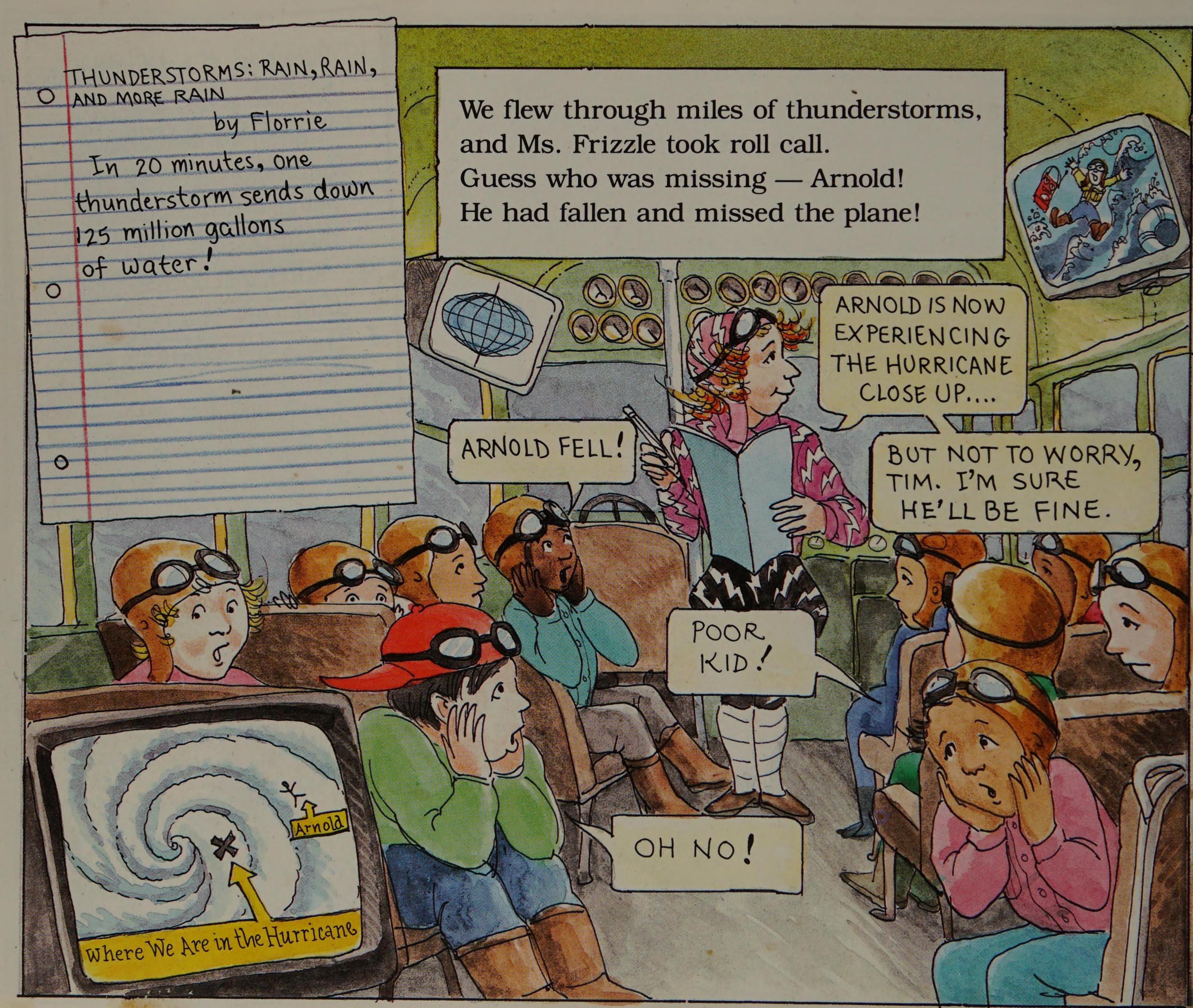


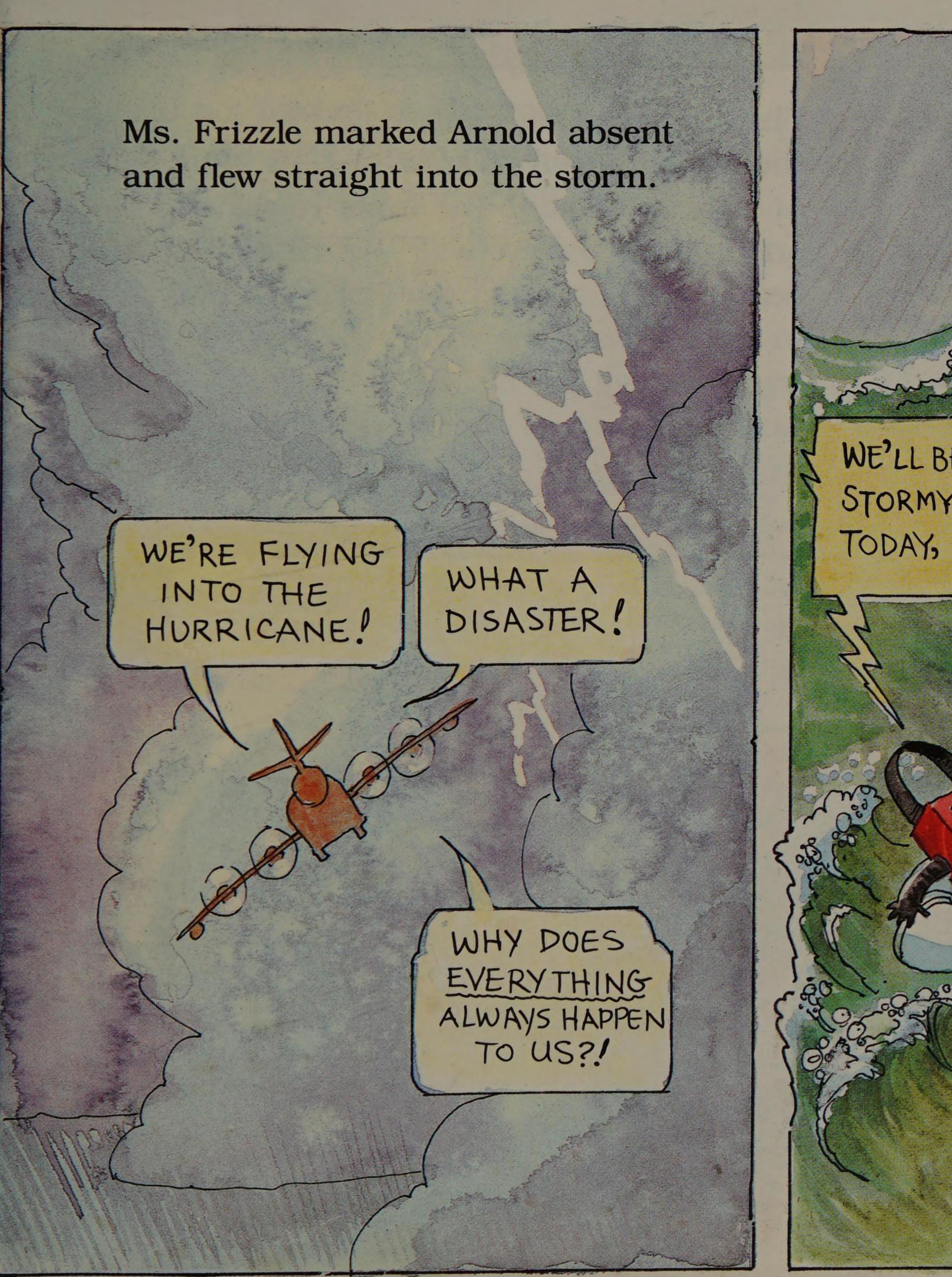




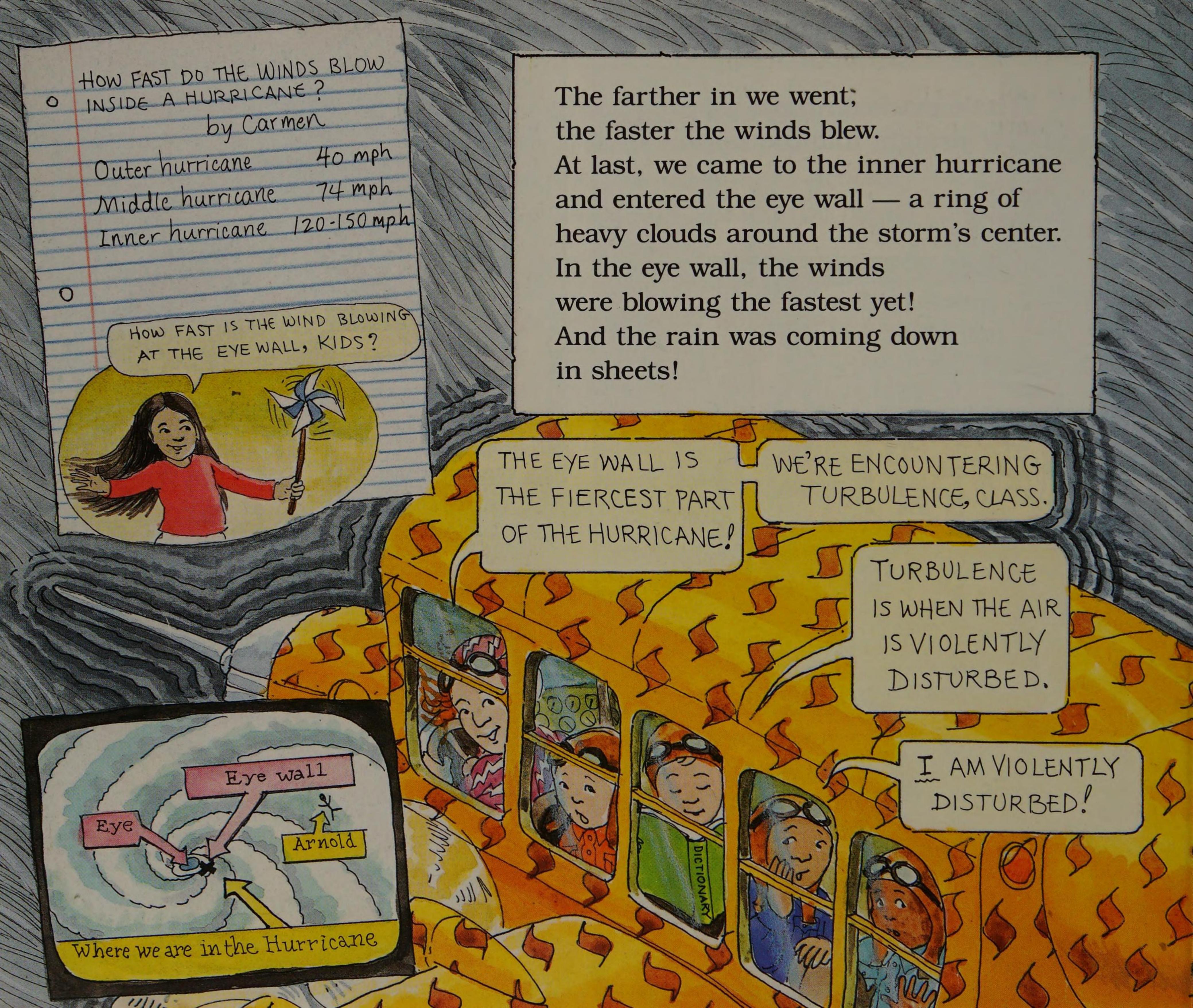










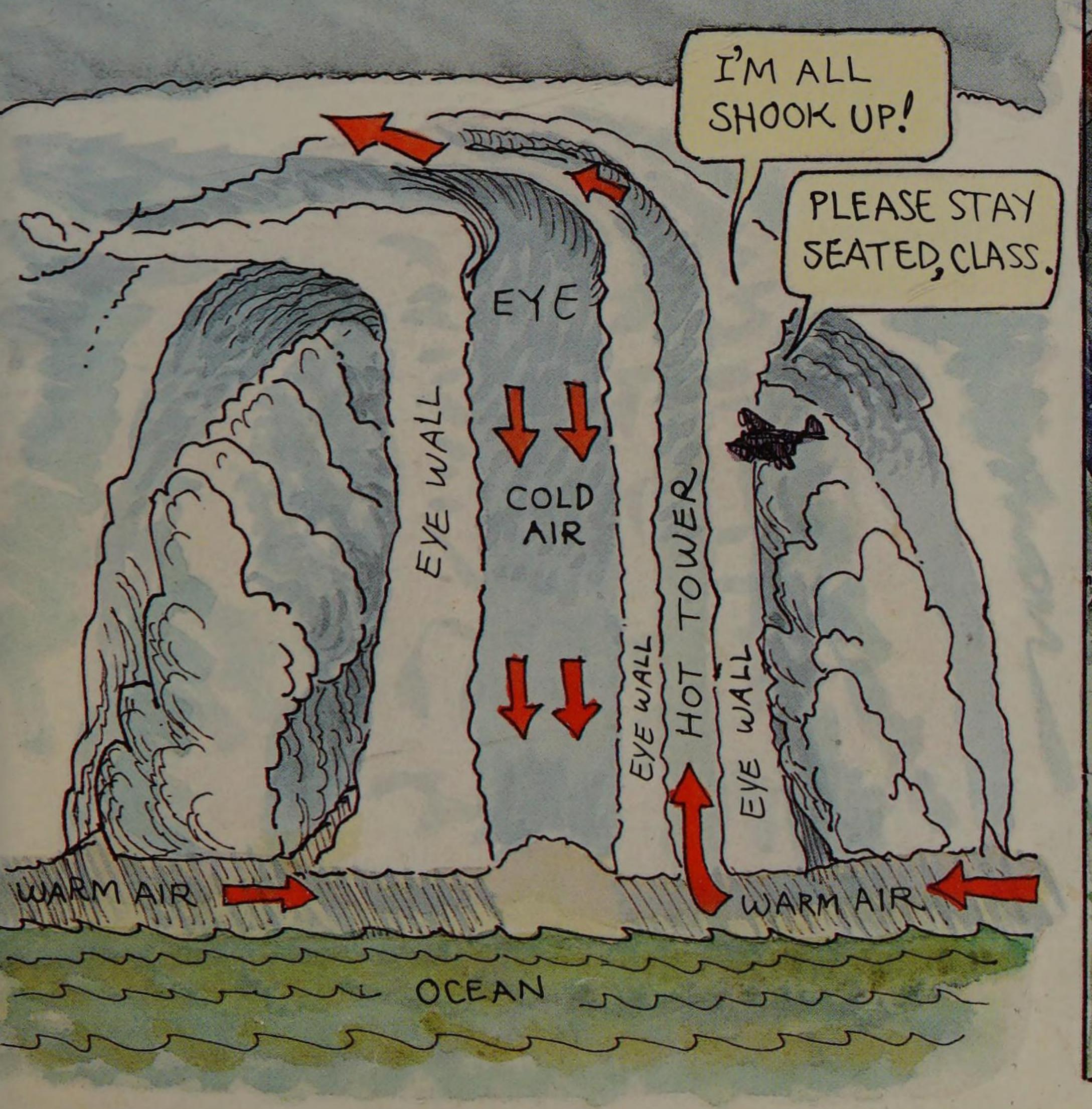


All around were columns of air called hot towers, or chimneys.

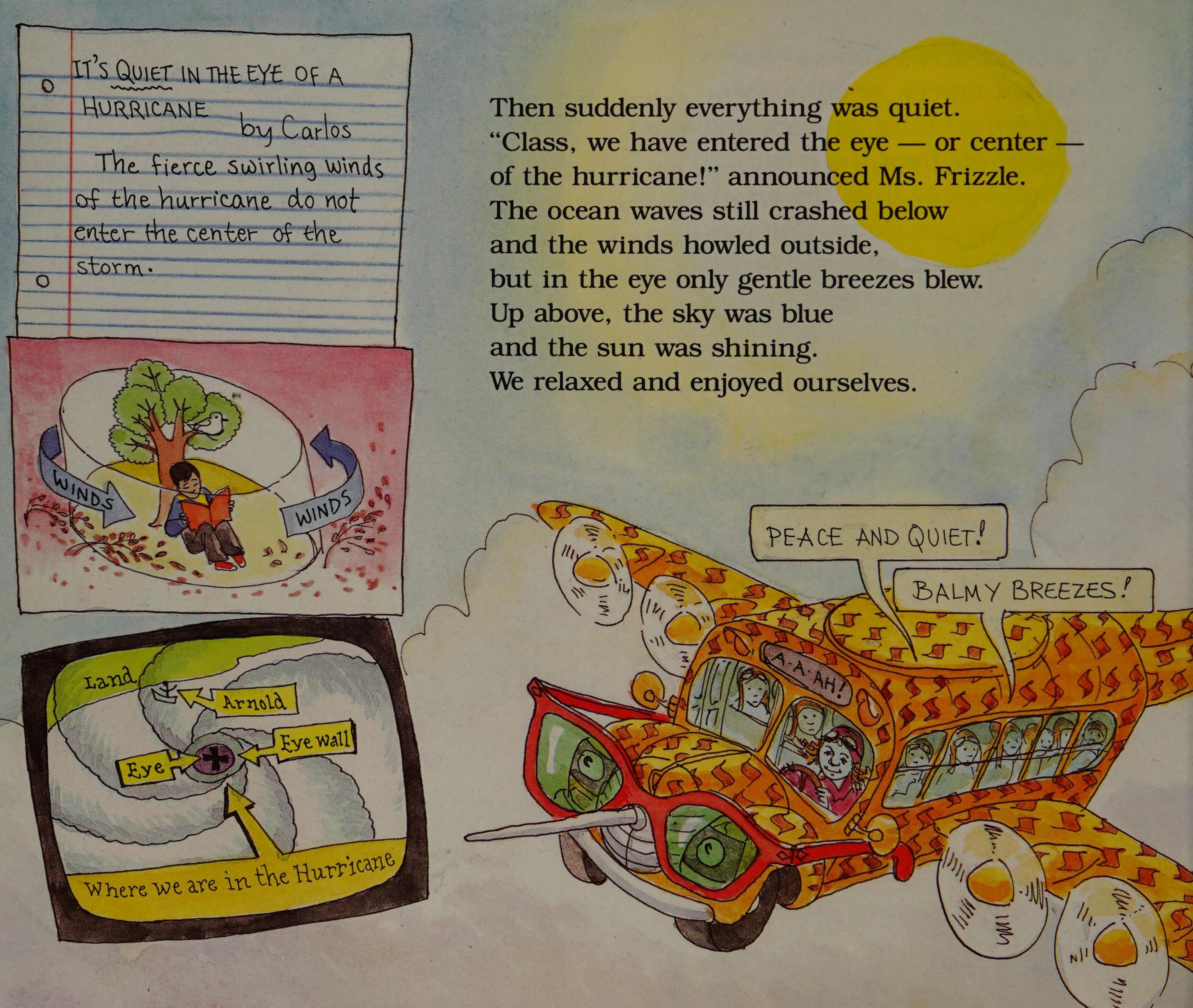
They were sucking up more and more hot moist air from the ocean.

The heat energy from the air was feeding the storm and making it stronger.

The plane was shaking and so were we!







We flew about thirty miles across the eye.

Then the Friz called out,

"We will enter the other side of the eye wall now."

"Don't go!" we cried, but the plane was already on its way — back into the hurricane's fierce wind and rain.



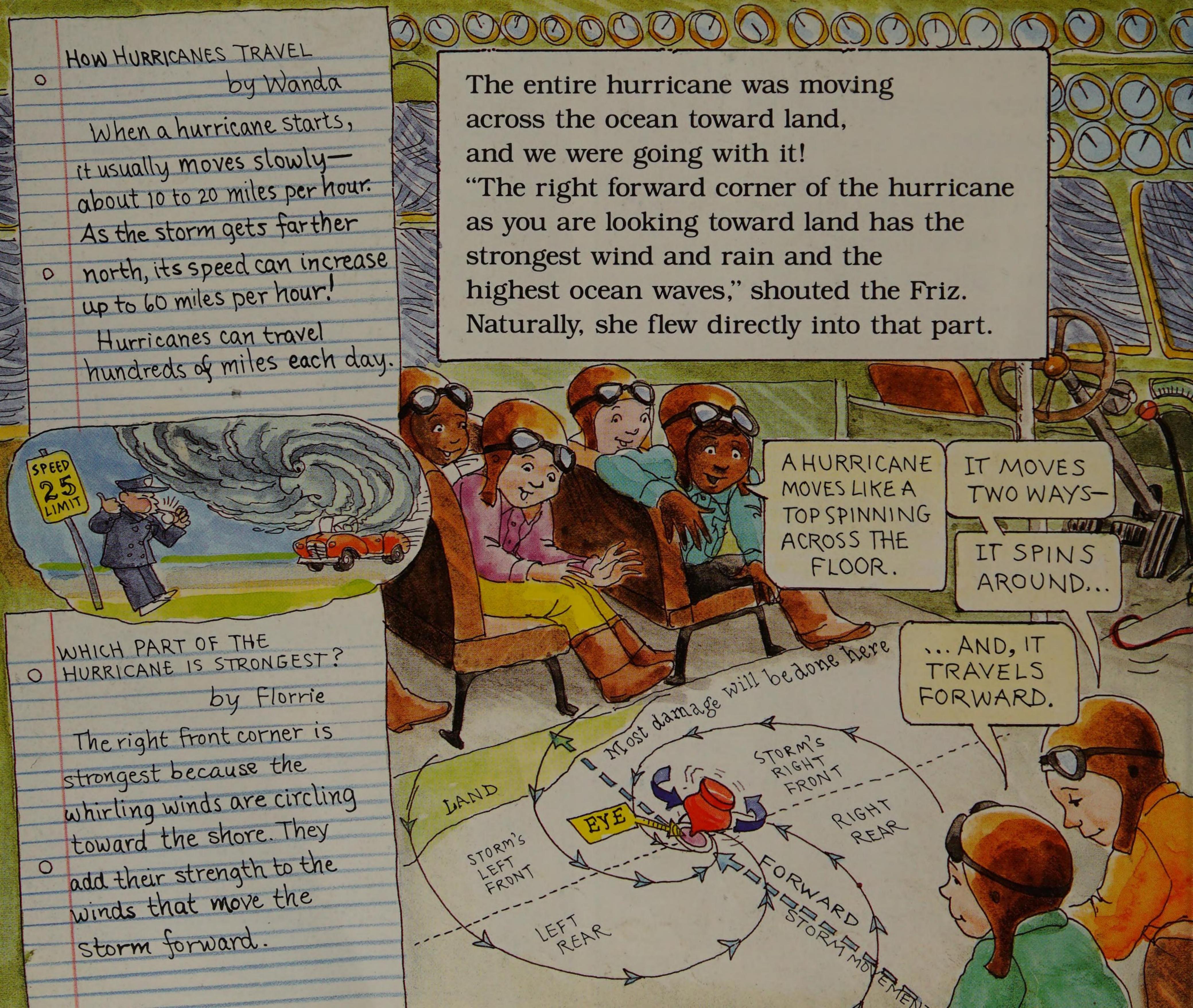
WHY DON'T HURRICANE WINDS BLOW INTO THE EYE?

by Shirley

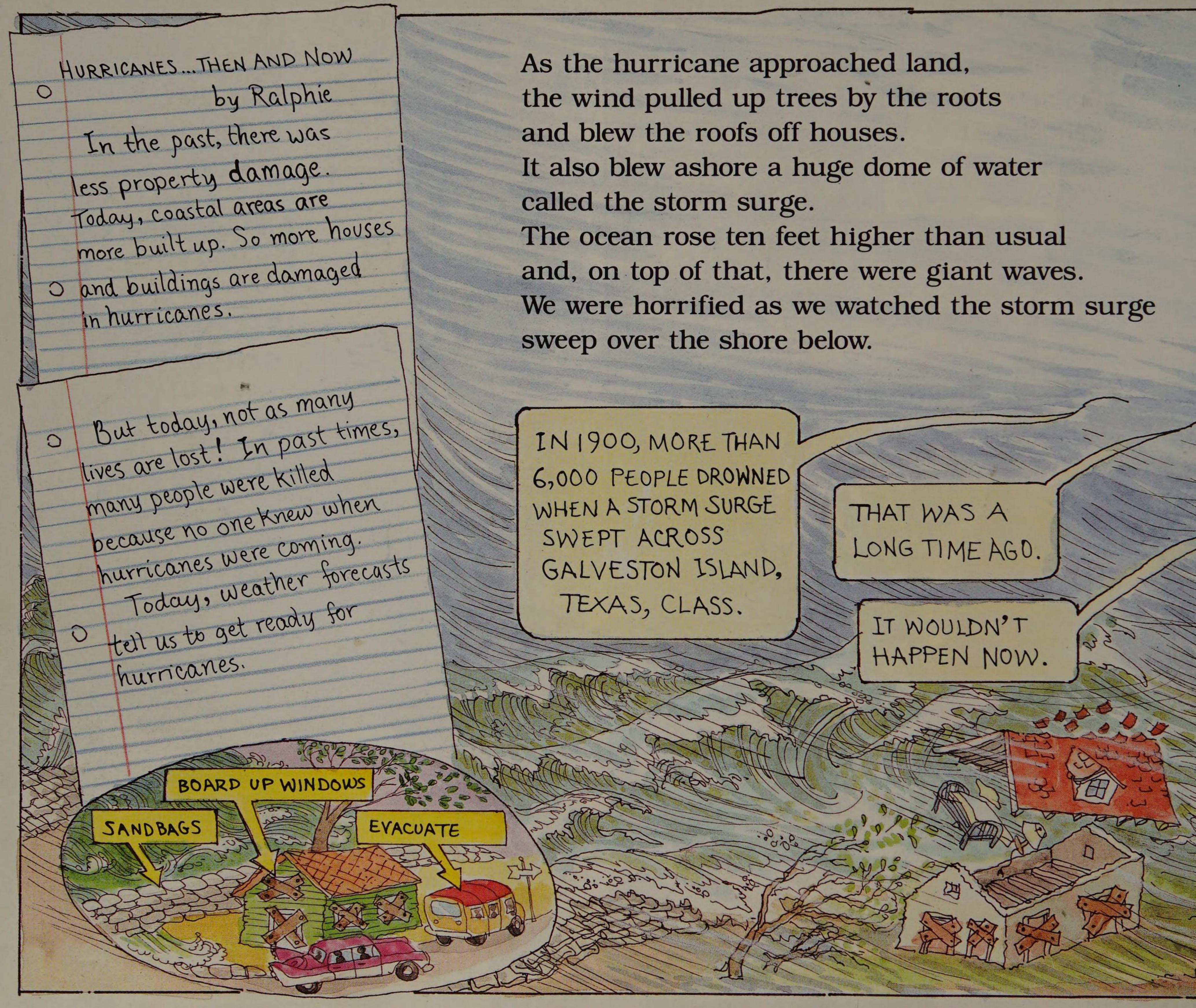
The winds swirl in toward the eye of the storm, but they do not enter it because they are pushed out by the same force that pushes you outward when you spin around.

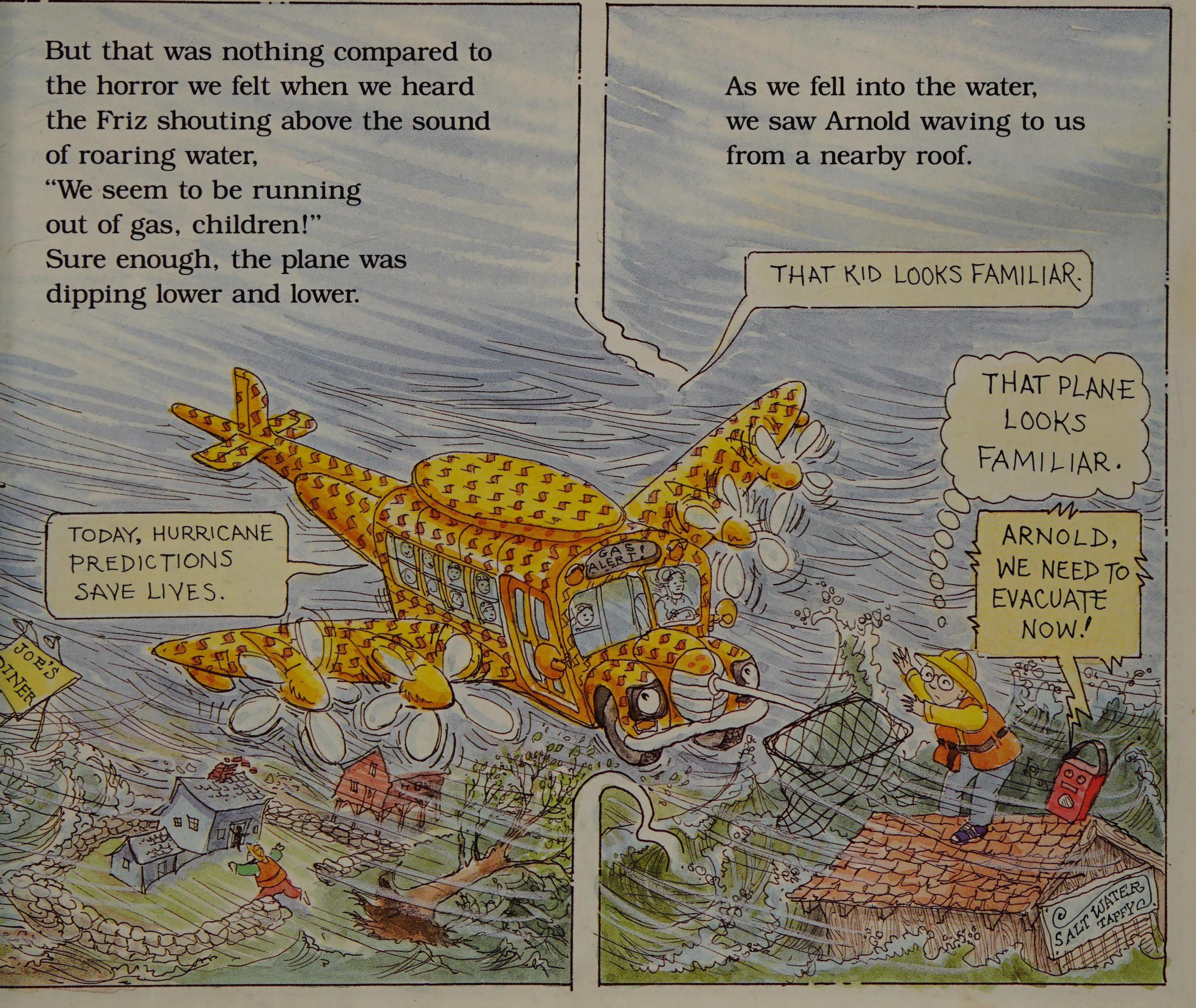


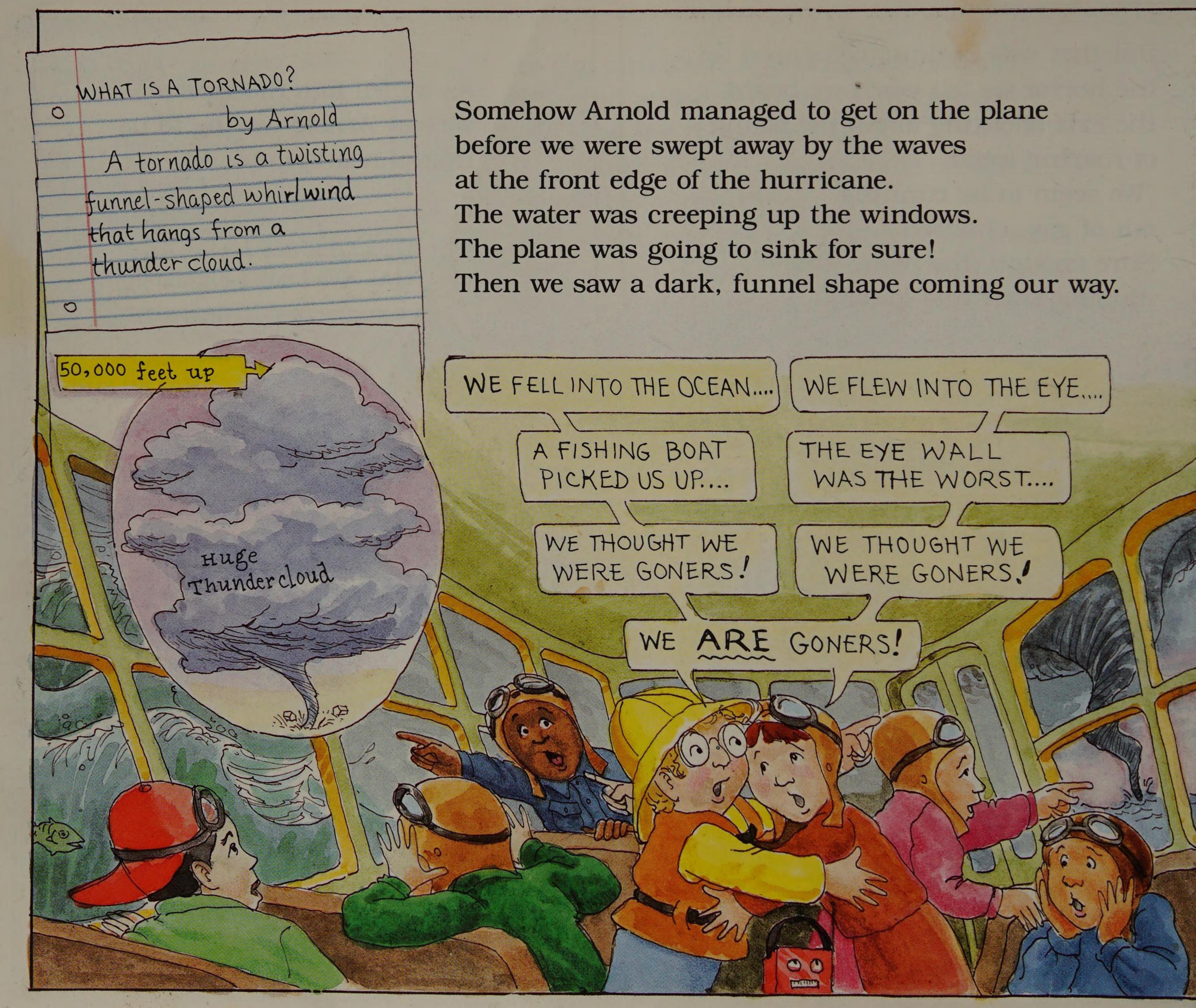


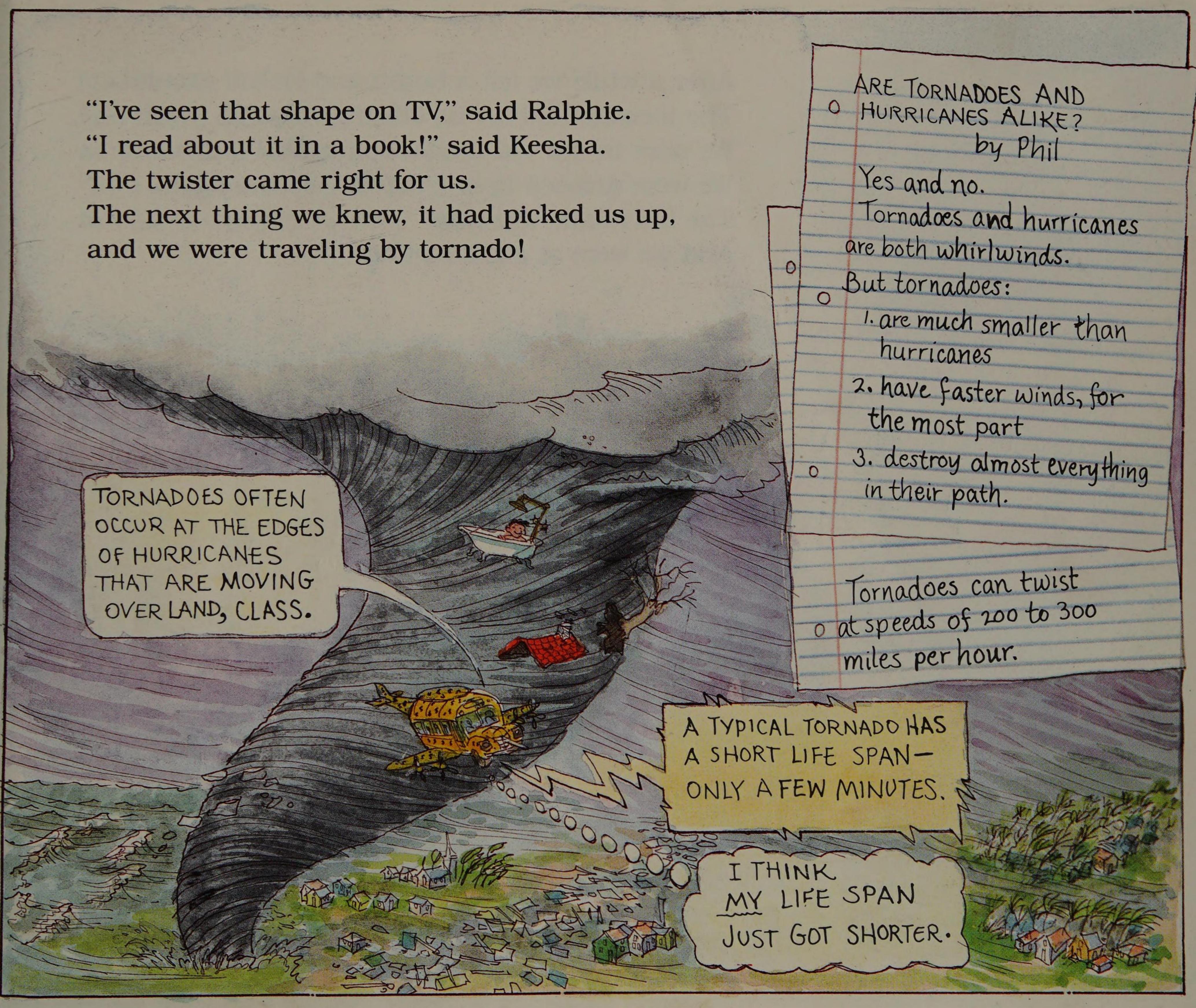




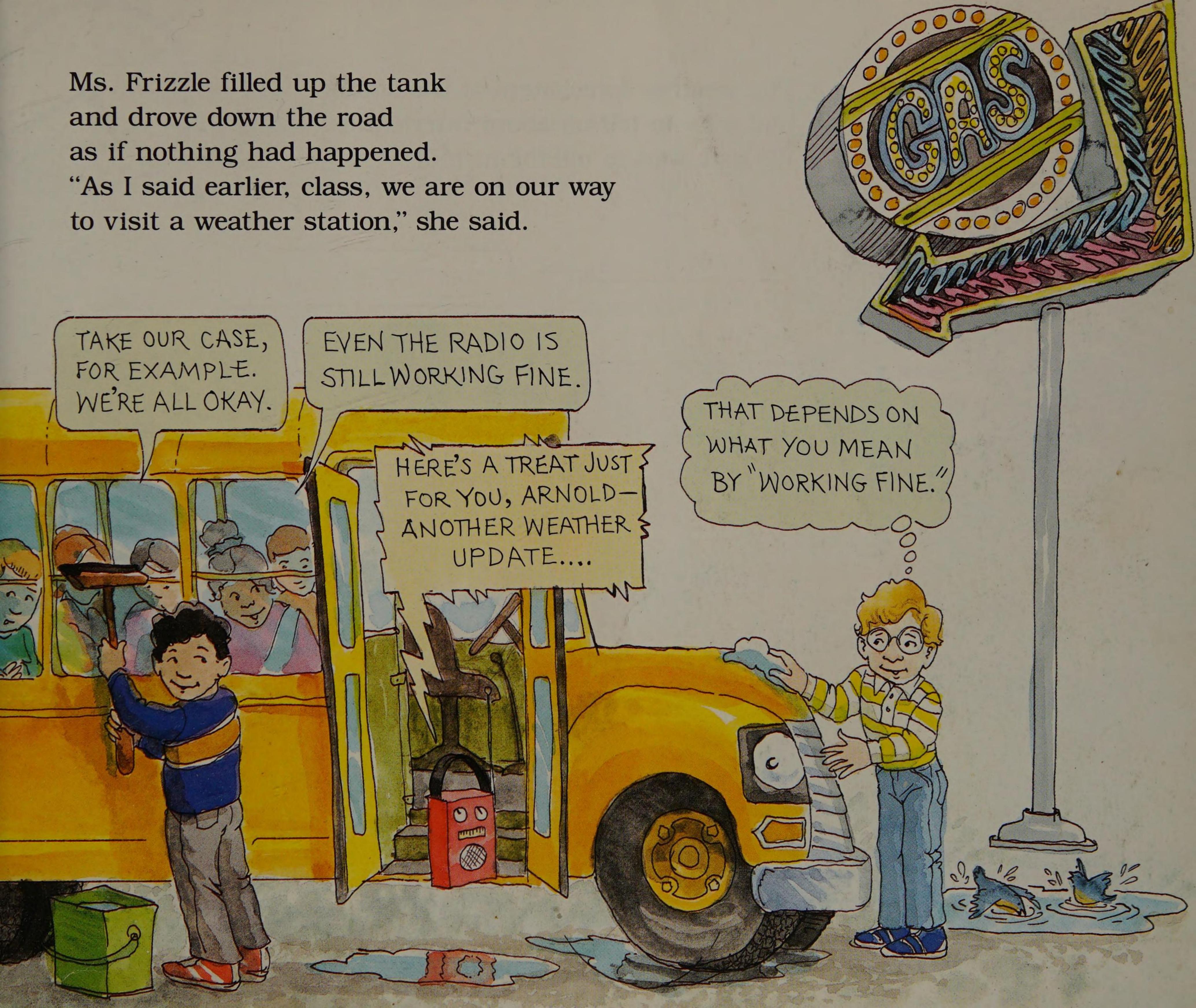














The weather forecasters at the station had a lot to tell us about hurricanes.

We had a lot to tell them, too!



HURRICANE WINDS SWIRL IN A CIRCLE BECAUSE...

OF THE EARTH.

HEY...THAT'S RIGHT....

ARE YOU PREPARED?

HURRICANE

A HURRICANE
FROM START
TO FINISH

1. HOT AJR RISES

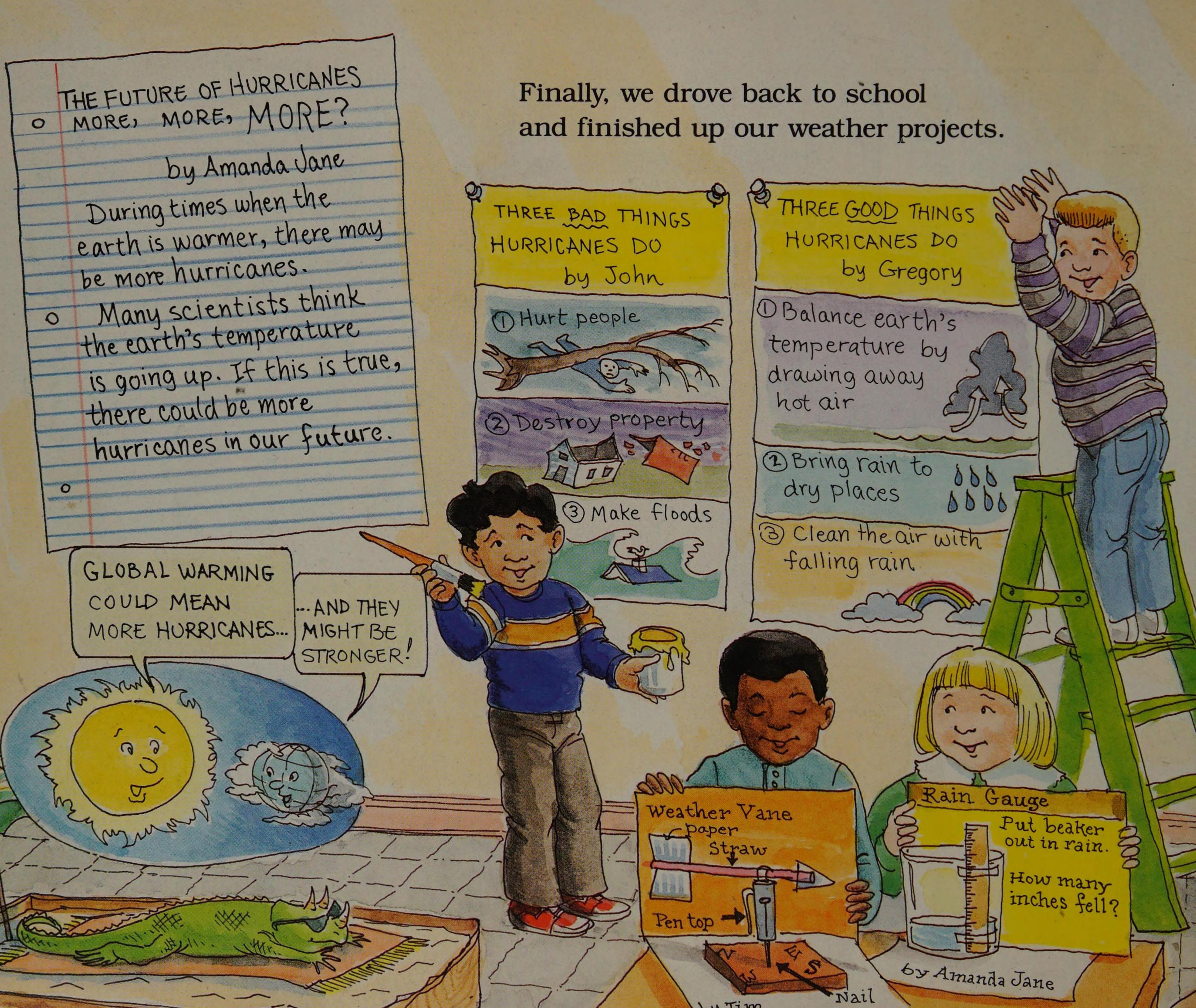
OVER TROPICAL OCEANS

NEAR EQUATOR

2 THUNDERCLOUDS FORM



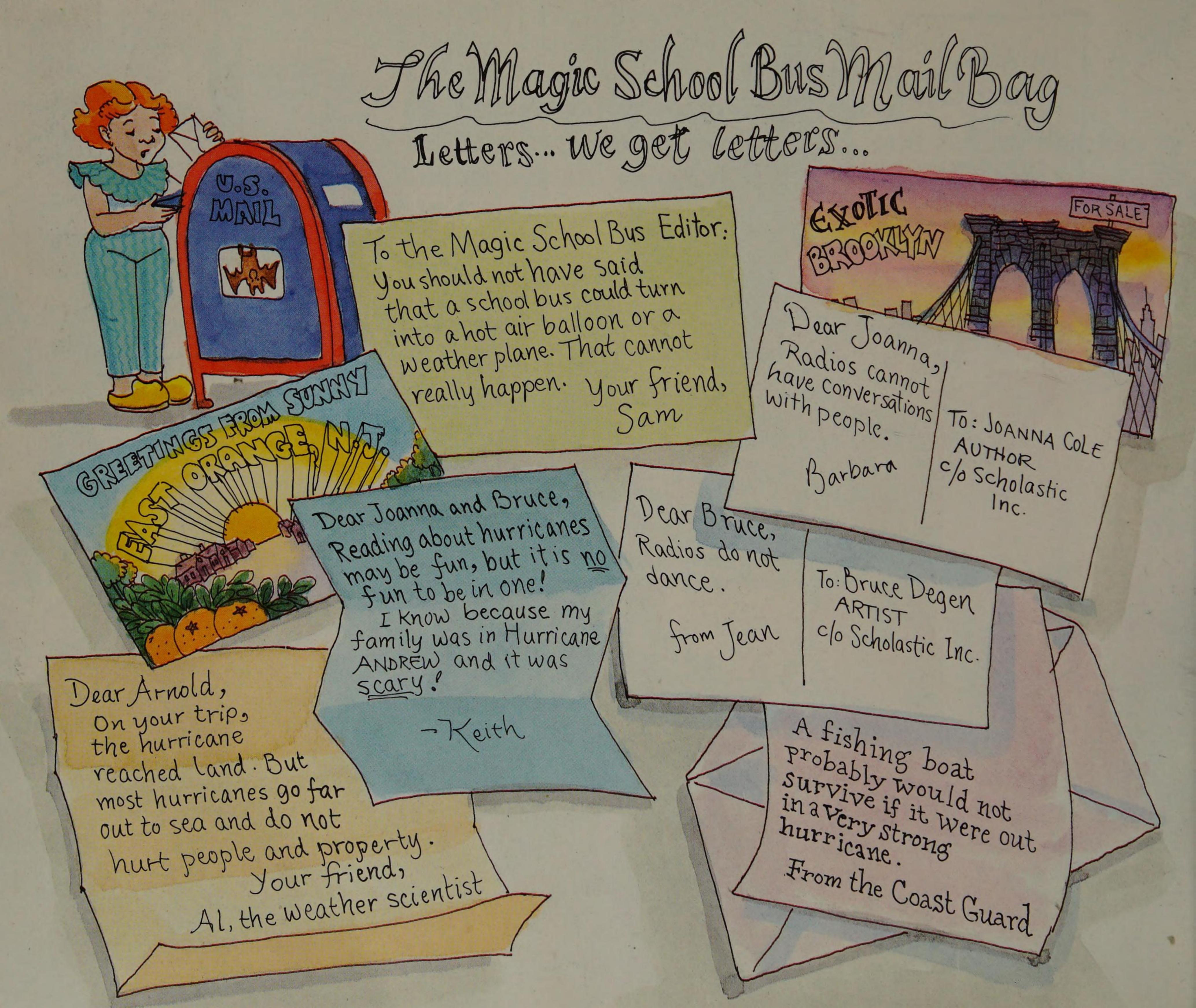


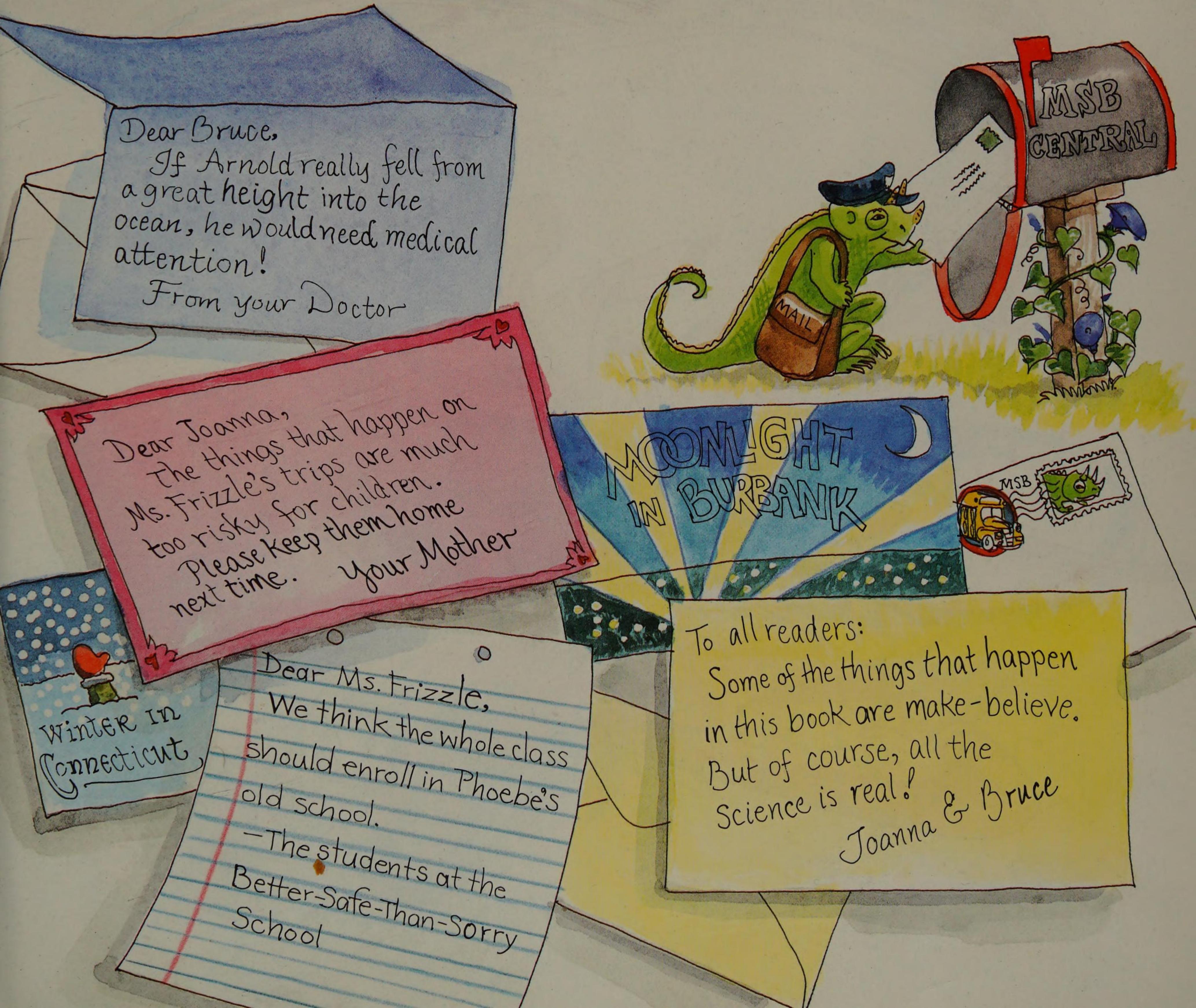






















Hurricane Joanna traveled through the western Pacific in August 1968, and lasted for eight days. The real Joanna, author JOANNA COLE, lives in the northeastern United States. Ms. Cole is the recipient of the Washington Post/Children's Book Guild Nonfiction Award for the body of her work and the David McCord Literature Citation for her significant contribution to excellence in the field of children's books.

There has yet to be a Hurricane Bruce. However, illustrator BRUCE DEGEN captures the energy, intensity, and beauty of this unique weather system in intricately designed paintings that have become the signature of the Magic School Bus books. Mr. Degen has illustrated many, many books for children, including the popular Jesse Bear series and Jamberry, which he wrote and illustrated. He lives in Connecticut with his family.



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